

# finalalex

```
knitr::opts_chunk$set(echo = TRUE)
library(ISLR)
library(MASS)
```

## Question 1

Loading data

```
train = read.table("spam-train.txt",header=FALSE, sep=",")
head(train)
```

```
##      V1 V2  V3  V4  V5  V6 V7  V8  V9  V10 V11  V12  V13  V14 V15  V16 V17
## 1 0.00  0 0.00 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.0
## 2 0.00  0 0.59 0.11 0.00 0.00  0 0.00 0.11 0.23  0 0.11 0.00 0.00  0 0.11 0.0
## 3 0.06  0 0.40 0.00 0.13 0.13  0 0.13 0.00 0.00  0 1.40 0.20 0.06  0 0.00 0.2
## 4 0.00  0 0.00 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.0
## 5 0.00  0 0.00 0.00 0.00 0.44  0 0.00 0.00 0.00  0 0.44 0.44 0.00  0 0.00 0.0
## 6 0.00  0 0.53 0.00 0.00 0.53  0 0.00 0.00 0.53  0 0.00 0.53 0.00  0 0.00 0.0
##      V18 V19 V20  V21 V22 V23 V24  V25  V26  V27  V28 V29 V30 V31 V32  V33  V34
## 1  0 2.35  0 0.00  0  0  0 1.17 0.00 1.17 2.35  0  0  0  0 1.17 0.00
## 2  0 0.95  0 0.47  0  0  0 0.23 0.00 0.71 0.00  0  0  0  0 0.00 0.11
## 3  0 0.06  0 0.00  0  0  0 2.54 0.00 0.00 0.00  0  0  0  0 0.00 0.00
## 4  0 0.00  0 0.00  0  0  0 2.56 2.56 2.56 0.00  0  0  0  0 0.00 0.00
## 5  0 1.32  0 0.00  0  0  0 0.00 0.00 0.88 0.00  0  0  0  0 0.00 0.00
## 6  0 2.15  0 0.53  0  0  0 0.00 0.00 0.00 0.00  0  0  0  0 0.00 0.00
##      V35 V36 V37 V38 V39 V40 V41 V42 V43 V44  V45  V46 V47 V48  V49  V50
## 1 1.17 0.00 0.00  0  0  0  0  0  0  0 0.00 0.00  0  0 0.000 0.610
## 2 0.00 0.47 0.00  0  0  0  0  0  0  0 0.00 0.00  0  0 0.227 0.322
## 3 0.00 0.06 0.06  0  0  0  0  0  0  0 0.06 0.00  0  0 0.028 0.085
## 4 0.00 0.00 0.00  0  0  0  0  0  0  0 2.56 0.00  0  0 0.000 0.000
## 5 0.00 0.00 0.00  0  0  0  0  0  0  0 0.44 0.44  0  0 0.000 0.150
## 6 0.00 0.00 0.00  0  0  0  0  0  0  0 1.07 0.00  0  0 0.000 0.101
##      V51  V52  V53 V54  V55 V56 V57 V58
## 1 0.000 0.203 0.000  0 2.541 15 61  0
## 2 0.113 0.056 0.075  0 2.546 38 601  0
## 3 0.000 0.000 0.000  0 2.341 22 665  0
## 4 0.000 0.000 0.000  0 1.500  4 24  0
## 5 0.000 0.000 0.000  0 1.613 11 71  0
## 6 0.000 0.000 0.000  0 1.857 16 52  0
```

```
test = read.table("spam-test.txt",header=FALSE, sep=",")
head(test)
```

```
##      V1  V2  V3 V4  V5  V6  V7  V8  V9  V10  V11  V12  V13 V14  V15  V16
```

```

## 1 0.12 0.12 0.24 0 1.34 0.12 0.00 0.12 0.00 0.00 0.36 0.85 0.00 0.0 0.00 0.24
## 2 0.00 0.00 0.32 0 0.64 0.64 0.64 0.32 0.32 0.00 0.00 0.32 0.32 0.0 0.00 0.32
## 3 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.00 0.00
## 4 0.00 0.00 0.40 0 0.40 0.20 0.00 0.00 0.00 1.01 0.20 0.40 0.00 0.0 0.00 0.20
## 5 0.51 0.43 0.29 0 0.14 0.03 0.00 0.18 0.54 0.62 0.29 0.65 0.65 1.2 0.03 0.21
## 6 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.23 0.00 0.0 0.00 0.00
##      V17  V18  V19  V20  V21  V22  V23  V24  V25  V26  V27  V28  V29  V30  V31  V32  V33
## 1 0.24 0.00 2.33 0 0.73 0 0.00 0.00 0.00 0.00 0 0 0 0 0 0 0
## 2 0.32 0.32 2.25 0 3.21 0 0.00 0.32 0.00 0.00 0 0 0 0 0 0 0
## 3 0.00 0.00 0.00 0 0.00 0 0.00 0.00 2.12 6.38 0 0 0 0 0 0 0
## 4 0.40 0.20 0.80 0 0.40 0 0.20 0.00 0.00 0.00 0 0 0 0 0 0 0
## 5 0.43 0.03 3.03 0 1.35 0 0.51 0.54 0.00 0.00 0 0 0 0 0 0 0
## 6 0.00 0.00 1.85 0 0.61 0 0.00 0.61 0.00 0.00 0 0 0 0 0 0 0
##      V34  V35  V36  V37  V38  V39  V40  V41  V42  V43  V44  V45  V46  V47  V48  V49  V50
## 1 0 0 0.98 0.00 0 0 0.12 0 0.00 0 0 0.12 0.00 0 0 0.061 0.020
## 2 0 0 0.00 0.00 0 0 0.00 0 0.00 0 0 0.64 0.00 0 0 0.000 0.156
## 3 0 0 0.00 2.12 0 0 0.00 0 0.00 0 0 0.00 0.00 0 0 0.000 0.000
## 4 0 0 0.00 0.00 0 0 0.20 0 0.00 0 0 0.00 0.00 0 0 0.000 0.030
## 5 0 0 0.00 0.00 0 0 0.00 0 0.00 0 0 0.03 0.00 0 0 0.012 0.078
## 6 0 0 0.00 0.61 0 0 0.00 0 1.23 0 0 1.23 1.85 0 0 0.000 0.098
##      V51  V52  V53  V54  V55  V56  V57  V58
## 1 0 0.041 0.041 0.000 2.351 69 254 1
## 2 0 0.000 0.156 0.000 1.752 19 149 1
## 3 0 0.000 0.000 0.000 1.666 6 30 0
## 4 0 0.000 0.302 0.000 1.727 11 190 1
## 5 0 0.443 0.510 0.133 6.590 739 2333 1
## 6 0 0.098 0.000 0.000 1.627 15 70 0

```

## Standardizing

Standardizing Train Data

```

train_Standardized = data.frame(scale(train))
train_Standardized$V58 = train$V58
train_Standardized

```

```

##      V1      V2      V3      V4      V5
## 1 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 2 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 3 -0.160223037 -0.167356312 0.225560888 -0.04580151 -0.282020280
## 4 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 5 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 6 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.483468390
## 7 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 8 -0.349649591 -0.167356312 0.742909994 -0.04580151 -0.483468390
## 9 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 10 -0.033938667 -0.167356312 0.822502164 -0.04580151 -0.173548221
## 11 -0.349649591 1.012314514 2.434243609 -0.04580151 0.678732243
## 12 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.042380986
## 13 -0.191794129 -0.167356312 -0.351482345 -0.04580151 -0.235532255
## 14 0.723767551 0.895128671 -0.570360813 -0.04580151 -0.483468390
## 15 -0.349649591 -0.167356312 1.379647355 0.26297240 -0.483468390

```

|       |              |              |              |             |              |
|-------|--------------|--------------|--------------|-------------|--------------|
| ## 16 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 17 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 3.328549687  |
| ## 18 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 19 | -0.349649591 | 0.043578207  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 20 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 21 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 22 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 23 | 2.902172926  | -0.167356312 | -0.570360813 | -0.04580151 | 1.112620480  |
| ## 24 | -0.349649591 | -0.167356312 | -0.172399962 | -0.04580151 | -0.173548221 |
| ## 25 | 2.712746372  | -0.167356312 | -0.570360813 | -0.04580151 | 0.260340015  |
| ## 26 | -0.128651944 | -0.167356312 | -0.431074515 | -0.04580151 | -0.483468390 |
| ## 27 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 28 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.306828041  |
| ## 29 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 30 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 31 | 4.354443177  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 32 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 33 | 0.060774610  | -0.167356312 | -0.311686260 | -0.04580151 | -0.065076162 |
| ## 34 | -0.349649591 | -0.167356312 | 2.036282758  | -0.04580151 | -0.483468390 |
| ## 35 | -0.349649591 | 0.098264934  | 0.782706079  | -0.04580151 | -0.483468390 |
| ## 36 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 37 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 38 | -0.349649591 | 7.270038565  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 39 | 1.955040154  | -0.167356312 | 0.145968718  | -0.04580151 | 0.074387914  |
| ## 40 | 0.187058980  | -0.167356312 | -0.411176473 | -0.04580151 | 0.182859973  |
| ## 41 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 42 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 43 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 44 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 45 | -0.349649591 | 0.059202986  | 0.862298249  | -0.04580151 | -0.034084145 |
| ## 46 | -0.349649591 | 0.363886180  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 47 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 48 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 49 | -0.349649591 | -0.167356312 | 0.862298249  | -0.04580151 | 4.025870067  |
| ## 50 | 13.352204511 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 51 | 0.755338643  | -0.167356312 | 0.126070676  | -0.04580151 | -0.483468390 |
| ## 52 | -0.349649591 | -0.167356312 | 1.021482589  | -0.04580151 | -0.483468390 |
| ## 53 | -0.349649591 | 0.051390597  | 1.101074760  | -0.04580151 | -0.049580154 |
| ## 54 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.539268167  |
| ## 55 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 56 | 3.565165867  | 0.152951661  | 1.896996461  | -0.04580151 | -0.483468390 |
| ## 57 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 58 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 59 | 1.007907382  | -0.167356312 | 2.036282758  | -0.04580151 | -0.483468390 |
| ## 60 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 61 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 62 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 63 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 64 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 65 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 66 | -0.349649591 | -0.167356312 | 0.106172633  | -0.04580151 | 0.043395897  |
| ## 67 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.430796108  |
| ## 68 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 69 | -0.349649591 | -0.167356312 | 1.459239525  | -0.04580151 | 0.306828041  |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 70  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 71  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 72  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 73  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 74  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.128116488  |
| ## 75  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 76  | 0.218630072  | -0.167356312 | -0.212196047 | -0.04580151 | 1.949404936  |
| ## 77  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 78  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 79  | -0.349649591 | -0.167356312 | 0.902094334  | -0.04580151 | 0.663236235  |
| ## 80  | -0.349649591 | -0.167356312 | 0.921992377  | -0.04580151 | 0.678732243  |
| ## 81  | 0.597483181  | -0.167356312 | 0.026580463  | -0.04580151 | -0.483468390 |
| ## 82  | -0.349649591 | -0.167356312 | 2.135772971  | -0.04580151 | 0.570260184  |
| ## 83  | -0.349649591 | -0.167356312 | 2.036282758  | -0.04580151 | -0.483468390 |
| ## 84  | -0.349649591 | -0.050170468 | -0.570360813 | -0.04580151 | -0.251028263 |
| ## 85  | -0.349649591 | 0.434197686  | 0.961788462  | -0.04580151 | 0.709724260  |
| ## 86  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 87  | -0.349649591 | 7.270038565  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 88  | 0.881623013  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 89  | -0.128651944 | -0.167356312 | -0.271890175 | -0.04580151 | -0.374996331 |
| ## 90  | -0.349649591 | 0.309199453  | -0.570360813 | -0.04580151 | 1.407044640  |
| ## 91  | -0.349649591 | 0.895128671  | 1.220463015  | -0.04580151 | -0.483468390 |
| ## 92  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 93  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 94  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 95  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 96  | 1.418331583  | -0.167356312 | 0.066376548  | -0.04580151 | 1.267580564  |
| ## 97  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 98  | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 99  | 0.092345703  | -0.167356312 | 0.006682421  | -0.04580151 | 1.329564598  |
| ## 100 | -0.349649591 | -0.167356312 | 2.294957311  | -0.04580151 | -0.483468390 |
| ## 101 | -0.349649591 | -0.018920910 | 0.205662846  | -0.04580151 | -0.483468390 |
| ## 102 | 2.839030742  | 0.090452544  | 0.424541314  | 8.54315418  | -0.483468390 |
| ## 103 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 104 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 105 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 106 | -0.349649591 | -0.167356312 | 0.842400207  | -0.04580151 | -0.127060196 |
| ## 107 | -0.033938667 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 108 | -0.349649591 | 0.051390597  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 109 | 2.112895616  | -0.167356312 | 0.981686504  | -0.04580151 | 1.949404936  |
| ## 110 | -0.349649591 | 0.262325115  | 0.524031526  | -0.04580151 | 1.236588547  |
| ## 111 | 0.755338643  | 0.106077324  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 112 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 113 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 114 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 115 | 0.976336290  | -0.167356312 | 0.265356973  | -0.04580151 | 2.166349054  |
| ## 116 | -0.349649591 | 0.457634855  | -0.570360813 | -0.04580151 | 0.446292117  |
| ## 117 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 118 | 0.597483181  | -0.167356312 | -0.570360813 | -0.04580151 | 0.461788125  |
| ## 119 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 120 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 121 | -0.349649591 | -0.167356312 | 2.434243609  | -0.04580151 | -0.483468390 |
| ## 122 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 123 | -0.349649591 | 1.707617187  | -0.570360813 | -0.04580151 | 0.756212286  |

```

## 124 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 125 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 126 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.049580154
## 127 -0.349649591 -0.167356312 0.842400207 -0.04580151 -0.220036246
## 128 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 129 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 130 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 131 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 132 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 133 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.466998852
## 134 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 135 -0.349649591 -0.167356312 1.319953227 -0.04580151 -0.003092128
## 136 -0.065509759 0.215450778 0.603623696 -0.04580151 0.120875939
## 137 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 138 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 139 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 140 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 141 1.323618306 -0.167356312 1.558729738 -0.04580151 0.337820058
## 142 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.554764176
## 143 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 144 -0.349649591 0.535758750 -0.570360813 -0.04580151 -0.483468390
## 145 0.092345703 -0.167356312 -0.013215622 -0.04580151 -0.344004314
## 146 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 147 -0.065509759 -0.167356312 0.145968718 -0.04580151 -0.483468390
## 148 -0.349649591 -0.167356312 -0.192298005 -0.04580151 -0.483468390
## 149 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 150 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 151 0.660625366 -0.042358078 0.543929569 -0.04580151 0.012403880
## 152 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 153 1.197333937 -0.167356312 1.399545397 -0.04580151 -0.483468390
## 154 0.187058980 -0.167356312 -0.053011707 -0.04580151 -0.359500322
## 155 3.060028388 -0.167356312 1.578627780 -0.04580151 -0.483468390
## 156 0.755338643 -0.167356312 0.126070676 -0.04580151 0.058891906
## 157 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 158 3.533594774 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 159 -0.349649591 0.043578207 0.504133484 -0.04580151 -0.065076162
## 160 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 161 0.439627719 -0.034545689 0.106172633 -0.04580151 -0.483468390
## 162 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 163 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 164 -0.349649591 -0.167356312 2.135772971 -0.04580151 -0.483468390
## 165 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 166 -0.349649591 -0.167356312 -0.411176473 -0.04580151 -0.483468390
## 167 -0.349649591 -0.167356312 2.971490757 -0.04580151 -0.483468390
## 168 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 169 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 170 -0.349649591 -0.167356312 1.359749312 -0.04580151 -0.483468390
## 171 -0.349649591 -0.034545689 -0.570360813 -0.04580151 -0.483468390
## 172 -0.349649591 0.129514492 0.185764803 -0.04580151 -0.483468390
## 173 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 174 -0.349649591 -0.065795247 0.742909994 -0.04580151 -0.483468390
## 175 0.376485534 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 176 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 177 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 178 | -0.349649591 | -0.167356312 | 1.160768887  | 0.50242971  | 0.864684345  |
| ## 179 | -0.349649591 | -0.167356312 | 0.165866761  | -0.04580151 | 1.236588547  |
| ## 180 | 3.375739312  | 0.137326882  | 0.603623696  | -0.04580151 | -0.483468390 |
| ## 181 | -0.349649591 | -0.167356312 | 3.409247693  | -0.04580151 | -0.483468390 |
| ## 182 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.074387914  |
| ## 183 | 3.375739312  | 0.137326882  | 0.603623696  | -0.04580151 | -0.483468390 |
| ## 184 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 185 | -0.349649591 | 0.067015376  | 0.921992377  | -0.04580151 | -0.018588137 |
| ## 186 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 187 | 1.386760491  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 188 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 189 | -0.002367575 | 0.004516259  | -0.351482345 | -0.04580151 | 0.213851990  |
| ## 190 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 191 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 192 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 193 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 194 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 195 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 196 | -0.349649591 | 0.246700336  | -0.570360813 | -0.04580151 | 1.159108505  |
| ## 197 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 198 | 0.850051920  | -0.167356312 | 0.703113909  | -0.04580151 | -0.297516289 |
| ## 199 | -0.349649591 | -0.167356312 | 0.165866761  | -0.04580151 | 0.089883922  |
| ## 200 | 0.092345703  | -0.167356312 | -0.291788217 | -0.04580151 | -0.483468390 |
| ## 201 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 2.677717333  |
| ## 202 | -0.349649591 | 0.074827765  | 0.046478506  | -0.04580151 | -0.483468390 |
| ## 203 | 2.965315111  | -0.167356312 | -0.570360813 | -0.04580151 | 1.143612497  |
| ## 204 | 1.039478475  | -0.167356312 | 1.180666930  | -0.04580151 | 0.198355982  |
| ## 205 | -0.349649591 | -0.034545689 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 206 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.601252201  |
| ## 207 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 208 | 0.187058980  | -0.167356312 | -0.232094090 | -0.04580151 | 1.871924893  |
| ## 209 | -0.349649591 | -0.167356312 | 2.673020119  | -0.04580151 | 0.353316066  |
| ## 210 | -0.349649591 | 0.199825999  | -0.570360813 | -0.04580151 | 0.244844007  |
| ## 211 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 212 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 213 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 214 | 0.187058980  | -0.167356312 | -0.411176473 | -0.04580151 | 0.167363965  |
| ## 215 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 216 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 217 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 218 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 219 | 1.039478475  | -0.167356312 | -0.570360813 | -0.04580151 | 1.577500733  |
| ## 220 | -0.349649591 | 0.098264934  | -0.570360813 | -0.04580151 | 0.570260184  |
| ## 221 | 6.343421998  | -0.167356312 | -0.570360813 | -0.04580151 | 0.337820058  |
| ## 222 | -0.349649591 | -0.167356312 | 0.782706079  | -0.04580151 | 0.570260184  |
| ## 223 | -0.349649591 | 0.332636621  | 0.703113909  | -0.04580151 | 0.012403880  |
| ## 224 | -0.349649591 | -0.167356312 | 0.066376548  | -0.04580151 | 0.523772159  |
| ## 225 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 226 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 227 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 228 | -0.349649591 | 0.027953428  | 0.424541314  | -0.04580151 | -0.483468390 |
| ## 229 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.012403880  |
| ## 230 | -0.349649591 | -0.167356312 | -0.351482345 | -0.04580151 | -0.142556204 |
| ## 231 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 232 | -0.349649591 | -0.167356312 | -0.271890175 | -0.04580151 | 0.911172370  |
| ## 233 | 1.134191752  | 0.074827765  | 0.364847186  | -0.04580151 | -0.374996331 |
| ## 234 | -0.349649591 | -0.167356312 | -0.371380387 | -0.04580151 | -0.328508306 |
| ## 235 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 236 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.080572170 |
| ## 237 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 238 | -0.349649591 | -0.011108520 | -0.172399962 | -0.04580151 | -0.483468390 |
| ## 239 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 240 | -0.349649591 | -0.167356312 | 0.981686504  | -0.04580151 | -0.483468390 |
| ## 241 | -0.191794129 | -0.167356312 | 0.325051101  | -0.04580151 | -0.235532255 |
| ## 242 | 1.260476121  | 0.168576440  | 0.006682421  | -0.04580151 | -0.266524272 |
| ## 243 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 244 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 245 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 246 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 247 | -0.349649591 | 1.090438410  | 5.836808881  | -0.04580151 | -0.483468390 |
| ## 248 | -0.349649591 | 0.457634855  | -0.570360813 | -0.04580151 | 0.756212286  |
| ## 249 | -0.349649591 | -0.167356312 | 0.981686504  | -0.04580151 | 1.329564598  |
| ## 250 | -0.349649591 | -0.167356312 | 1.180666930  | -0.04580151 | 0.880180353  |
| ## 251 | 0.597483181  | -0.167356312 | -0.570360813 | -0.04580151 | 0.461788125  |
| ## 252 | 1.797184692  | -0.167356312 | 1.459239525  | -0.04580151 | -0.483468390 |
| ## 253 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 254 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 255 | -0.349649591 | -0.167356312 | 0.066376548  | -0.04580151 | -0.483468390 |
| ## 256 | -0.349649591 | 0.152951661  | -0.172399962 | -0.04580151 | 2.104365020  |
| ## 257 | 0.187058980  | -0.167356312 | -0.411176473 | -0.04580151 | 0.167363965  |
| ## 258 | -0.349649591 | 0.527946361  | 1.698016035  | -0.04580151 | -0.297516289 |
| ## 259 | -0.349649591 | -0.167356312 | -0.351482345 | -0.04580151 | -0.313012297 |
| ## 260 | -0.033938667 | -0.011108520 | 0.464337399  | -0.04580151 | -0.003092128 |
| ## 261 | 0.092345703  | -0.167356312 | 0.563827611  | -0.04580151 | -0.049580154 |
| ## 262 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 263 | 2.491748725  | -0.167356312 | 1.220463015  | -0.04580151 | -0.483468390 |
| ## 264 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 265 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 266 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 267 | -0.128651944 | -0.167356312 | -0.271890175 | -0.04580151 | -0.374996331 |
| ## 268 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 269 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 270 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 271 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.065076162 |
| ## 272 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 273 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 274 | -0.349649591 | -0.167356312 | 0.862298249  | -0.04580151 | 0.632244218  |
| ## 275 | 0.092345703  | -0.057982857 | 0.006682421  | -0.04580151 | -0.483468390 |
| ## 276 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.911172370  |
| ## 277 | -0.349649591 | 0.231075557  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 278 | 0.439627719  | 0.027953428  | -0.570360813 | -0.04580151 | -0.096068179 |
| ## 279 | -0.128651944 | -0.167356312 | 0.524031526  | -0.04580151 | 0.492780142  |
| ## 280 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 2.879165442  |
| ## 281 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 282 | 2.365464356  | -0.167356312 | 1.140870845  | -0.04580151 | -0.483468390 |
| ## 283 | -0.349649591 | 0.738880879  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 284 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 285 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 286 | 2.302322171  | 0.488884413  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 287 | -0.349649591 | -0.167356312 | 1.797506248  | -0.04580151 | -0.483468390 |
| ## 288 | -0.349649591 | 0.207638388  | 0.384745229  | -0.04580151 | 1.778948843  |
| ## 289 | -0.349649591 | 0.012328649  | -0.570360813 | -0.04580151 | -0.127060196 |
| ## 290 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 291 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 3.591981831  |
| ## 292 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 293 | -0.065509759 | -0.167356312 | -0.033113665 | -0.04580151 | 0.074387914  |
| ## 294 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 295 | -0.349649591 | -0.167356312 | 3.170471182  | -0.04580151 | 0.973156404  |
| ## 296 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 297 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 298 | -0.349649591 | -0.167356312 | 0.265356973  | -0.04580151 | 0.167363965  |
| ## 299 | -0.349649591 | -0.151731532 | -0.470870600 | -0.04580151 | -0.452476373 |
| ## 300 | -0.349649591 | -0.167356312 | -0.212196047 | -0.04580151 | 2.119861029  |
| ## 301 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 302 | -0.349649591 | 1.449808331  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 303 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.291332032  |
| ## 304 | -0.349649591 | -0.167356312 | 6.274565817  | -0.04580151 | -0.483468390 |
| ## 305 | 0.123916795  | -0.050170468 | 0.026580463  | -0.04580151 | 0.678732243  |
| ## 306 | -0.349649591 | -0.167356312 | -0.053011707 | -0.04580151 | 0.337820058  |
| ## 307 | 0.692196458  | -0.167356312 | 0.742909994  | -0.04580151 | -0.142556204 |
| ## 308 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 309 | -0.349649591 | 7.270038565  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 310 | -0.349649591 | -0.167356312 | 5.279663690  | -0.04580151 | -0.483468390 |
| ## 311 | -0.349649591 | -0.167356312 | 0.842400207  | -0.04580151 | 0.616748210  |
| ## 312 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 313 | 0.881623013  | -0.167356312 | -0.570360813 | -0.04580151 | 0.725220269  |
| ## 314 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 315 | 1.544615953  | -0.167356312 | -0.570360813 | -0.04580151 | 1.391548632  |
| ## 316 | -0.002367575 | -0.167356312 | -0.351482345 | -0.04580151 | -0.313012297 |
| ## 317 | 2.996886204  | -0.042358078 | 0.225560888  | -0.04580151 | -0.235532255 |
| ## 318 | -0.349649591 | -0.167356312 | 4.404149819  | -0.04580151 | -0.483468390 |
| ## 319 | 0.565912089  | -0.167356312 | 0.006682421  | -0.04580151 | -0.034084145 |
| ## 320 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.880180353  |
| ## 321 | 0.376485534  | -0.167356312 | -0.112705835 | -0.04580151 | 0.585756193  |
| ## 322 | -0.349649591 | -0.167356312 | 3.289859438  | -0.04580151 | -0.483468390 |
| ## 323 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 324 | -0.097080852 | -0.104857195 | 0.941890419  | -0.04580151 | 0.833692328  |
| ## 325 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 326 | 1.134191752  | -0.167356312 | 1.319953227  | -0.04580151 | 0.988652412  |
| ## 327 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 328 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 329 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 330 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 331 | -0.065509759 | -0.167356312 | 0.762808037  | -0.04580151 | -0.034084145 |
| ## 332 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 333 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.469028674  |
| ## 334 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 335 | -0.349649591 | -0.167356312 | 0.026580463  | -0.04580151 | 0.461788125  |
| ## 336 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 337 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 338 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 339 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |



```

## 340 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 341 -0.349649591 0.035765817 -0.053011707 -0.04580151 0.120875939
## 342 1.670900323 -0.167356312 -0.072909750 -0.04580151 -0.483468390
## 343 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.351286244
## 344 -0.349649591 -0.167356312 0.364847186 -0.04580151 -0.483468390
## 345 -0.033938667 0.067015376 0.225560888 -0.04580151 -0.173548221
## 346 1.765613600 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 347 -0.191794129 -0.167356312 -0.470870600 -0.04580151 -0.018588137
## 348 1.955040154 0.113889713 0.882196292 -0.04580151 -0.483468390
## 349 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 350 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 351 -0.349649591 -0.026733299 -0.570360813 -0.04580151 -0.204540238
## 352 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 353 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 354 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 355 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 356 -0.349649591 1.090438410 5.836808881 -0.04580151 -0.483468390
## 357 0.692196458 -0.042358078 -0.251992132 -0.04580151 1.608492750
## 358 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 359 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 360 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.483468390
## 361 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 362 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 363 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 364 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 365 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 366 2.302322171 -0.167356312 1.101074760 -0.04580151 -0.483468390
## 367 -0.349649591 -0.167356312 -0.570360813 -0.04580151 7.264535832
## 368 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 369 -0.002367575 -0.167356312 -0.132603877 -0.04580151 -0.483468390
## 370 0.029203518 -0.167356312 0.623521739 -0.04580151 0.446292117
## 371 -0.349649591 -0.167356312 0.165866761 -0.04580151 -0.049580154
## 372 1.260476121 0.231075557 -0.570360813 -0.04580151 -0.483468390
## 373 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 374 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.297516289
## 375 1.765613600 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 376 0.502769904 -0.167356312 -0.570360813 0.30078144 -0.282020280
## 377 -0.349649591 -0.167356312 1.280157142 -0.04580151 0.957660395
## 378 0.344914442 -0.167356312 -0.132603877 -0.04580151 0.213851990
## 379 -0.349649591 0.863879113 0.543929569 -0.04580151 -0.483468390
## 380 -0.349649591 -0.167356312 2.115874928 0.80490210 -0.483468390
## 381 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.236588547
## 382 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 383 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.469028674
## 384 2.491748725 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 385 -0.349649591 -0.167356312 0.583725654 -0.04580151 1.314068589
## 386 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 387 2.712746372 -0.167356312 -0.570360813 -0.04580151 0.260340015
## 388 1.355189399 -0.167356312 1.578627780 -0.04580151 0.353316066
## 389 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 390 -0.349649591 0.676381763 -0.570360813 -0.04580151 -0.483468390
## 391 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.508276150
## 392 0.187058980 -0.167356312 -0.232094090 0.23146485 -0.220036246
## 393 0.376485534 0.012328649 0.364847186 -0.04580151 0.601252201

```

```

## 394 -0.349649591 0.160764051 -0.570360813 -0.04580151 0.167363965
## 395 -0.349649591 -0.167356312 2.175569056 -0.04580151 -0.483468390
## 396 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 397 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 398 -0.349649591 -0.167356312 2.076078843 -0.04580151 0.539268167
## 399 -0.065509759 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 400 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.282020280
## 401 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 402 -0.254936314 -0.159543922 -0.271890175 -0.04580151 -0.344004314
## 403 1.986611247 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 404 0.123916795 0.074827765 -0.570360813 -0.04580151 -0.483468390
## 405 -0.349649591 0.262325115 0.524031526 -0.04580151 1.221092539
## 406 -0.097080852 -0.034545689 0.106172633 -0.04580151 1.778948843
## 407 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 408 -0.349649591 -0.167356312 5.458746073 -0.04580151 0.182859973
## 409 -0.349649591 -0.167356312 6.155177562 -0.04580151 -0.483468390
## 410 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 411 -0.349649591 -0.167356312 1.976588631 -0.04580151 -0.483468390
## 412 0.723767551 -0.167356312 2.812306417 -0.04580151 1.097124471
## 413 0.597483181 -0.167356312 0.026580463 -0.04580151 -0.483468390
## 414 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 415 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.771708294
## 416 -0.349649591 -0.167356312 1.180666930 -0.04580151 -0.483468390
## 417 -0.349649591 -0.167356312 0.364847186 -0.04580151 2.476269223
## 418 -0.349649591 -0.167356312 1.240361057 -0.04580151 -0.483468390
## 419 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 420 2.996886204 -0.167356312 0.822502164 -0.04580151 1.159108505
## 421 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 422 3.249454943 -0.167356312 -0.570360813 -0.04580151 1.283076573
## 423 -0.349649591 -0.167356312 0.663317824 -0.04580151 0.477284134
## 424 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 425 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 426 0.187058980 0.035765817 1.837302333 -0.04580151 0.182859973
## 427 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 428 1.197333937 -0.167356312 0.902094334 -0.04580151 -0.111564187
## 429 -0.349649591 -0.167356312 1.837302333 -0.04580151 -0.483468390
## 430 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 431 -0.349649591 -0.167356312 -0.053011707 -0.04580151 -0.483468390
## 432 0.881623013 -0.167356312 -0.570360813 -0.04580151 0.725220269
## 433 -0.349649591 -0.167356312 1.001584547 -0.04580151 -0.483468390
## 434 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 435 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 436 -0.349649591 -0.167356312 1.479137568 -0.04580151 1.112620480
## 437 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 438 -0.002367575 -0.167356312 -0.351482345 -0.04580151 -0.483468390
## 439 -0.349649591 -0.167356312 0.902094334 -0.04580151 2.383293172
## 440 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 441 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 442 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 443 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 444 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.391548632
## 445 -0.349649591 -0.167356312 0.066376548 -0.04580151 -0.483468390
## 446 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 447 1.355189399 -0.167356312 -0.570360813 -0.04580151 2.863669434

```

```

## 448 -0.349649591 -0.167356312 0.862298249 -0.04580151 1.763452834
## 449 -0.349649591 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 450 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 451 0.281772257 -0.167356312 -0.371380387 -0.04580151 -0.483468390
## 452 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.042380986
## 453 -0.349649591 0.082640155 1.339851270 -0.04580151 -0.483468390
## 454 0.502769904 0.043578207 0.524031526 -0.04580151 -0.065076162
## 455 0.976336290 -0.167356312 -0.570360813 -0.04580151 0.833692328
## 456 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 457 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 458 -0.349649591 0.121702103 0.165866761 -0.04580151 -0.344004314
## 459 0.439627719 -0.167356312 -0.570360813 -0.04580151 0.306828041
## 460 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 461 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 462 -0.128651944 -0.167356312 -0.271890175 -0.04580151 -0.344004314
## 463 -0.349649591 0.637319815 -0.570360813 -0.04580151 1.112620480
## 464 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 465 -0.349649591 0.442010075 4.085781139 -0.04580151 0.725220269
## 466 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 467 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.297516289
## 468 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 469 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 470 0.313343349 -0.167356312 -0.152501920 0.08653017 0.492780142
## 471 -0.349649591 -0.167356312 0.464337399 -0.04580151 0.322324049
## 472 1.039478475 -0.167356312 -0.570360813 -0.04580151 1.577500733
## 473 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 474 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 475 -0.349649591 -0.167356312 -0.570360813 -0.04580151 3.204581620
## 476 -0.318078499 -0.159543922 -0.311686260 -0.04580151 -0.282020280
## 477 1.292047214 0.856066723 -0.053011707 -0.04580151 4.010374059
## 478 -0.349649591 -0.167356312 0.265356973 -0.04580151 0.508276150
## 479 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 480 0.187058980 -0.034545689 -0.072909750 -0.04580151 0.182859973
## 481 0.913194105 0.207638388 0.165866761 -0.04580151 -0.266524272
## 482 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 483 -0.349649591 0.363886180 -0.570360813 -0.04580151 5.838903055
## 484 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 485 -0.033938667 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 486 0.155487887 0.020141038 1.896996461 -0.04580151 0.151867956
## 487 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 488 0.344914442 -0.167356312 0.981686504 -0.04580151 -0.483468390
## 489 2.649604187 -0.167356312 -0.112705835 -0.04580151 -0.127060196
## 490 -0.349649591 0.254512726 -0.570360813 -0.04580151 0.353316066
## 491 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 492 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 493 -0.349649591 -0.167356312 0.046478506 -0.04580151 0.492780142
## 494 1.071049567 0.535758750 1.220463015 -0.04580151 0.213851990
## 495 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.461788125
## 496 -0.349649591 -0.167356312 1.936792546 -0.04580151 -0.483468390
## 497 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 498 -0.349649591 0.098264934 -0.570360813 -0.04580151 0.570260184
## 499 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 500 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 501 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 502 -0.349649591 -0.167356312 3.528635948 -0.04580151 -0.483468390
## 503 0.534340996 -0.167356312 -0.013215622 -0.04580151 1.732460817
## 504 -0.349649591 -0.167356312 0.205662846 -0.04580151 1.329564598
## 505 0.281772257 0.465447244 0.643419781 -0.04580151 -0.483468390
## 506 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.344004314
## 507 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.182859973
## 508 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 509 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 510 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 511 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 512 -0.349649591 -0.167356312 -0.351482345 -0.04580151 -0.313012297
## 513 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 514 -0.349649591 0.465447244 -0.570360813 -0.04580151 2.662221324
## 515 -0.349649591 0.082640155 1.339851270 -0.04580151 -0.483468390
## 516 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 517 -0.349649591 0.317011842 0.663317824 -0.04580151 -0.003092128
## 518 0.376485534 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 519 -0.286507406 -0.167356312 -0.271890175 -0.04580151 -0.111564187
## 520 -0.191794129 -0.167356312 0.325051101 -0.04580151 -0.235532255
## 521 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 522 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 523 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 524 -0.191794129 -0.167356312 -0.351482345 -0.04580151 -0.235532255
## 525 3.565165867 0.152951661 1.896996461 -0.04580151 -0.483468390
## 526 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 527 -0.349649591 -0.167356312 -0.132603877 4.40936480 -0.483468390
## 528 0.281772257 -0.167356312 -0.172399962 -0.04580151 -0.173548221
## 529 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 530 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.964900944
## 531 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 532 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 533 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 534 -0.097080852 -0.104857195 -0.072909750 -0.04580151 -0.483468390
## 535 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 536 -0.349649591 -0.167356312 2.215365141 -0.04580151 -0.483468390
## 537 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 538 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.198355982
## 539 0.692196458 0.356073790 -0.570360813 -0.04580151 -0.483468390
## 540 -0.349649591 -0.167356312 0.524031526 -0.04580151 -0.483468390
## 541 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 542 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.297516289
## 543 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 544 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 545 1.007907382 -0.167356312 0.285255016 -0.04580151 0.182859973
## 546 -0.097080852 -0.167356312 -0.251992132 -0.04580151 -0.483468390
## 547 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 548 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 549 0.092345703 -0.167356312 -0.013215622 -0.04580151 -0.344004314
## 550 -0.349649591 -0.167356312 3.329655523 -0.04580151 -0.483468390
## 551 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 552 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.942164387
## 553 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 554 -0.349649591 -0.167356312 1.717914078 -0.04580151 0.105379931
## 555 2.996886204 -0.167356312 0.822502164 -0.04580151 1.159108505

```

```

## 556 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 557 1.986611247 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 558 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 559 0.850051920 -0.167356312 3.210267267 -0.04580151 1.283076573
## 560 -0.349649591 -0.167356312 0.285255016 -0.04580151 -0.483468390
## 561 -0.349649591 -0.167356312 -0.271890175 -0.04580151 -0.251028263
## 562 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 563 -0.349649591 0.004516259 0.086274591 -0.04580151 -0.142556204
## 564 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 565 0.060774610 -0.167356312 -0.053011707 -0.04580151 0.523772159
## 566 1.165762844 -0.167356312 1.359749312 -0.04580151 0.260340015
## 567 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 568 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 569 2.775888557 -0.167356312 1.399545397 -0.04580151 -0.483468390
## 570 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 571 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 572 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 573 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 574 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 575 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 576 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.359500322
## 577 -0.349649591 -0.167356312 0.524031526 -0.04580151 -0.483468390
## 578 -0.349649591 -0.167356312 -0.072909750 -0.04580151 -0.096068179
## 579 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 580 -0.349649591 -0.167356312 -0.570360813 0.79229908 -0.483468390
## 581 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.483468390
## 582 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 583 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 584 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 585 -0.191794129 -0.128294364 0.225560888 -0.04580151 0.043395897
## 586 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 587 -0.349649591 -0.167356312 0.623521739 -0.04580151 0.446292117
## 588 12.089360815 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 589 4.796438470 -0.167356312 2.673020119 -0.04580151 -0.483468390
## 590 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 591 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 592 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 593 -0.349649591 0.137326882 -0.570360813 -0.04580151 -0.483468390
## 594 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.911172370
## 595 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 596 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.632244218
## 597 1.481473768 -0.167356312 -0.570360813 -0.04580151 0.415300100
## 598 -0.349649591 0.207638388 0.384745229 -0.04580151 0.260340015
## 599 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 600 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 601 -0.349649591 0.254512726 0.504133484 -0.04580151 2.910157459
## 602 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.275836024
## 603 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 604 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 605 -0.349649591 0.106077324 0.822502164 -0.04580151 0.058891906
## 606 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.399804091
## 607 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 608 1.292047214 -0.167356312 4.165373309 -0.04580151 -0.080572170
## 609 0.218630072 -0.167356312 -0.391278430 -0.04580151 0.074387914

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 610 | 1.670900323  | -0.167356312 | 0.703113909  | -0.04580151 | -0.483468390 |
| ## 611 | -0.349649591 | -0.167356312 | 0.902094334  | -0.04580151 | 2.383293172  |
| ## 612 | 0.187058980  | -0.167356312 | -0.232094090 | -0.04580151 | 1.871924893  |
| ## 613 | 0.692196458  | 0.356073790  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 614 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 615 | 0.187058980  | -0.167356312 | -0.411176473 | -0.04580151 | 0.167363965  |
| ## 616 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 617 | -0.349649591 | -0.167356312 | -0.212196047 | -0.04580151 | -0.483468390 |
| ## 618 | 1.797184692  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 619 | 1.039478475  | -0.167356312 | 1.180666930  | -0.04580151 | 0.198355982  |
| ## 620 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 621 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 622 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 623 | 0.660625366  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 624 | 2.744317464  | -0.042358078 | 0.245458931  | -0.04580151 | -0.359500322 |
| ## 625 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.794444851  |
| ## 626 | -0.349649591 | -0.167356312 | 0.703113909  | -0.04580151 | -0.483468390 |
| ## 627 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 628 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 629 | -0.349649591 | 0.832629554  | -0.570360813 | -0.04580151 | 0.508276150  |
| ## 630 | -0.349649591 | -0.167356312 | 0.643419781  | -0.04580151 | -0.483468390 |
| ## 631 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 632 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 633 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 634 | 1.007907382  | -0.167356312 | 0.285255016  | -0.04580151 | -0.483468390 |
| ## 635 | 0.029203518  | -0.167356312 | -0.331584302 | -0.04580151 | -0.483468390 |
| ## 636 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 637 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 638 | -0.349649591 | 10.988736004 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 639 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 640 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 641 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 642 | -0.349649591 | -0.167356312 | 2.414345566  | -0.04580151 | -0.483468390 |
| ## 643 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 644 | -0.160223037 | -0.073607637 | 0.961788462  | -0.04580151 | -0.189044230 |
| ## 645 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 646 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 647 | -0.349649591 | -0.167356312 | 0.046478506  | -0.04580151 | 0.477284134  |
| ## 648 | 1.165762844  | 0.590445477  | 1.359749312  | -0.04580151 | 0.260340015  |
| ## 649 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.391548632  |
| ## 650 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 651 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 652 | -0.349649591 | -0.167356312 | 7.070487518  | -0.04580151 | -0.483468390 |
| ## 653 | 2.775888557  | -0.167356312 | 1.399545397  | -0.04580151 | -0.483468390 |
| ## 654 | -0.349649591 | -0.167356312 | -0.570360813 | 26.88054307 | -0.483468390 |
| ## 655 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 656 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 657 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 658 | -0.349649591 | -0.081420026 | -0.351482345 | -0.04580151 | 0.043395897  |
| ## 659 | -0.349649591 | 0.121702103  | 1.638321908  | -0.04580151 | 0.089883922  |
| ## 660 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 661 | 1.260476121  | 0.168576440  | 0.006682421  | -0.04580151 | -0.266524272 |
| ## 662 | 0.565912089  | -0.167356312 | 0.006682421  | -0.04580151 | -0.034084145 |
| ## 663 | 0.376485534  | 0.012328649  | 0.364847186  | -0.04580151 | 0.601252201  |

```

## 664 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 665 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 666 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.911172370
## 667 -0.349649591 0.059202986 0.862298249 -0.04580151 -0.034084145
## 668 -0.349649591 0.324824232 -0.570360813 -0.04580151 1.484524682
## 669 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 670 -0.349649591 -0.167356312 0.981686504 -0.04580151 -0.483468390
## 671 -0.349649591 0.910753450 2.175569056 -0.04580151 -0.483468390
## 672 -0.349649591 -0.089232416 0.663317824 -0.04580151 -0.003092128
## 673 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 674 -0.349649591 0.059202986 1.160768887 -0.04580151 -0.034084145
## 675 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 676 -0.349649591 0.254512726 0.504133484 -0.04580151 1.190100522
## 677 -0.349649591 0.262325115 0.524031526 -0.04580151 1.236588547
## 678 -0.349649591 0.098264934 0.802604122 -0.04580151 0.043395897
## 679 1.891897970 -0.167356312 -0.351482345 -0.04580151 0.244844007
## 680 1.197333937 -0.167356312 -0.092807792 -0.04580151 -0.111564187
## 681 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 682 0.060774610 -0.167356312 -0.311686260 -0.04580151 -0.282020280
## 683 -0.349649591 -0.167356312 0.603623696 -0.04580151 -0.483468390
## 684 1.986611247 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 685 1.039478475 -0.167356312 1.180666930 -0.04580151 0.198355982
## 686 -0.349649591 -0.167356312 0.663317824 -0.04580151 0.477284134
## 687 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 688 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.466998852
## 689 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 690 -0.349649591 0.910753450 2.175569056 -0.04580151 -0.483468390
## 691 2.049753432 -0.167356312 0.185764803 -0.04580151 -0.297516289
## 692 2.491748725 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 693 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 694 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 695 -0.349649591 -0.167356312 1.419443440 -0.04580151 -0.483468390
## 696 0.218630072 -0.167356312 0.524031526 -0.04580151 -0.204540238
## 697 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.198355982
## 698 1.670900323 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 699 -0.349649591 0.113889713 0.145968718 -0.04580151 -0.483468390
## 700 -0.349649591 -0.167356312 -0.053011707 -0.04580151 -0.483468390
## 701 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 702 -0.349649591 -0.167356312 0.086274591 -0.04580151 1.050636446
## 703 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 704 -0.349649591 0.176388830 0.305153058 -0.04580151 -0.483468390
## 705 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.250054734
## 706 1.607758138 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 707 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 708 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.902916910
## 709 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 710 1.481473768 -0.167356312 0.106172633 -0.04580151 -0.313012297
## 711 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 712 -0.349649591 0.176388830 1.200564972 -0.04580151 0.198355982
## 713 2.807459649 -0.167356312 0.086274591 -0.04580151 0.539268167
## 714 -0.349649591 -0.167356312 0.623521739 -0.04580151 0.446292117
## 715 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 716 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 717 -0.349649591 -0.167356312 0.961788462 -0.04580151 -0.483468390

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 718 | -0.065509759 | -0.167356312 | -0.391278430 | -0.04580151 | 0.120875939  |
| ## 719 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 720 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 721 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 722 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 723 | -0.349649591 | 0.129514492  | 0.185764803  | -0.04580151 | -0.483468390 |
| ## 724 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.725220269  |
| ## 725 | 1.165762844  | 0.590445477  | 1.359749312  | -0.04580151 | 0.260340015  |
| ## 726 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 727 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 728 | -0.349649591 | -0.167356312 | 0.583725654  | -0.04580151 | 1.314068589  |
| ## 729 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 730 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.500020691  |
| ## 731 | -0.349649591 | -0.167356312 | 2.294957311  | -0.04580151 | -0.483468390 |
| ## 732 | 0.755338643  | -0.167356312 | 0.126070676  | -0.04580151 | -0.483468390 |
| ## 733 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 734 | -0.349649591 | 0.168576440  | 1.160768887  | -0.04580151 | -0.483468390 |
| ## 735 | 0.786909735  | 0.059202986  | 0.145968718  | -0.04580151 | -0.483468390 |
| ## 736 | -0.349649591 | -0.167356312 | 0.603623696  | -0.04580151 | -0.034084145 |
| ## 737 | 4.291300992  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 738 | -0.349649591 | 0.418572907  | -0.072909750 | -0.04580151 | -0.483468390 |
| ## 739 | -0.349649591 | -0.167356312 | 1.140870845  | -0.04580151 | -0.483468390 |
| ## 740 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 741 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 742 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 743 | 0.092345703  | -0.057982857 | 0.006682421  | -0.04580151 | -0.483468390 |
| ## 744 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.740716277  |
| ## 745 | -0.349649591 | -0.167356312 | -0.570360813 | 25.24215093 | -0.483468390 |
| ## 746 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 747 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 748 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.244844007  |
| ## 749 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 750 | -0.349649591 | 0.246700336  | 0.484235441  | -0.04580151 | 0.337820058  |
| ## 751 | 1.197333937  | 0.051390597  | 0.225560888  | -0.04580151 | -0.344004314 |
| ## 752 | -0.349649591 | 0.340449011  | -0.570360813 | -0.04580151 | 0.523772159  |
| ## 753 | 1.197333937  | -0.167356312 | -0.570360813 | -0.04580151 | 0.275836024  |
| ## 754 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.198355982  |
| ## 755 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 756 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 757 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 758 | -0.349649591 | -0.167356312 | 3.488839863  | -0.04580151 | -0.483468390 |
| ## 759 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 760 | -0.349649591 | -0.167356312 | 0.384745229  | -0.04580151 | 2.894661451  |
| ## 761 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 762 | -0.349649591 | -0.167356312 | 0.066376548  | -0.04580151 | 0.508276150  |
| ## 763 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 764 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 765 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.012403880  |
| ## 766 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 767 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 768 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 769 | -0.349649591 | -0.167356312 | 0.444439356  | -0.04580151 | 0.306828041  |
| ## 770 | -0.349649591 | -0.167356312 | 0.006682421  | -0.04580151 | -0.034084145 |
| ## 771 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |



```

## 772 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 773 1.670900323 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 774 -0.349649591 -0.167356312 0.464337399 -0.04580151 1.964900944
## 775 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 776 -0.349649591 0.035765817 0.981686504 -0.04580151 -0.080572170
## 777 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 778 -0.349649591 -0.018920910 -0.570360813 -0.04580151 -0.483468390
## 779 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 780 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.220036246
## 781 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 782 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 783 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 784 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 785 -0.349649591 -0.167356312 3.648024203 -0.04580151 1.159108505
## 786 0.439627719 -0.167356312 0.444439356 -0.04580151 -0.096068179
## 787 -0.349649591 -0.167356312 0.285255016 -0.04580151 0.864684345
## 788 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 789 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 790 -0.349649591 -0.167356312 0.882196292 -0.04580151 0.074387914
## 791 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 792 -0.349649591 -0.167356312 2.971490757 -0.04580151 -0.096068179
## 793 -0.349649591 0.160764051 -0.570360813 -0.04580151 0.167363965
## 794 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.266524272
## 795 -0.349649591 -0.167356312 0.046478506 -0.04580151 -0.483468390
## 796 1.165762844 -0.167356312 2.314855354 -0.04580151 0.260340015
## 797 -0.002367575 -0.167356312 -0.351482345 -0.04580151 -0.483468390
## 798 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 799 3.186312758 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 800 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 801 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 802 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 803 -0.349649591 0.152951661 -0.570360813 -0.04580151 -0.483468390
## 804 2.649604187 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 805 1.418331583 -0.167356312 0.543929569 -0.04580151 3.003133510
## 806 -0.065509759 0.215450778 0.603623696 -0.04580151 0.275836024
## 807 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 808 -0.349649591 0.348261400 0.742909994 -0.04580151 0.275836024
## 809 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 810 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 811 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 812 2.207608894 -0.167356312 1.041380632 -0.04580151 0.771708294
## 813 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 814 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.973156404
## 815 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 816 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 817 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 818 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 819 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 820 -0.349649591 -0.167356312 1.001584547 -0.04580151 -0.483468390
## 821 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.483468390
## 822 1.007907382 -0.167356312 -0.570360813 -0.04580151 0.864684345
## 823 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 824 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 825 -0.349649591 -0.167356312 0.961788462 -0.04580151 0.709724260

```

```

## 826 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.973156404
## 827 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 828 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 829 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 830 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 831 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 832 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 833 -0.349649591 -0.167356312 0.225560888 -0.04580151 -0.173548221
## 834 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 835 1.955040154 -0.167356312 0.145968718 -0.04580151 0.074387914
## 836 -0.349649591 -0.167356312 -0.033113665 -0.04580151 -0.483468390
## 837 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 838 -0.128651944 -0.167356312 -0.431074515 -0.04580151 -0.483468390
## 839 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 840 -0.349649591 -0.167356312 0.126070676 -0.04580151 -0.483468390
## 841 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 842 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 843 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 844 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 845 -0.065509759 -0.097044805 0.145968718 -0.04580151 0.926668378
## 846 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 847 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 848 -0.349649591 -0.167356312 -0.570360813 12.38707419 -0.483468390
## 849 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 850 0.786909735 -0.167356312 0.145968718 -0.04580151 0.074387914
## 851 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 852 -0.349649591 -0.167356312 -0.371380387 -0.04580151 -0.173548221
## 853 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 854 -0.349649591 0.059202986 0.006682421 -0.04580151 -0.034084145
## 855 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 856 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.105379931
## 857 -0.349649591 -0.167356312 0.802604122 -0.04580151 -0.483468390
## 858 -0.349649591 0.254512726 0.504133484 -0.04580151 1.205596530
## 859 -0.349649591 -0.018920910 0.563827611 -0.04580151 -0.344004314
## 860 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 861 -0.349649591 -0.018920910 1.578627780 -0.04580151 0.740716277
## 862 1.355189399 -0.167356312 0.504133484 -0.04580151 2.042380986
## 863 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 864 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 865 -0.349649591 -0.167356312 0.185764803 -0.04580151 1.298572581
## 866 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 867 -0.349649591 -0.167356312 0.603623696 -0.04580151 0.430796108
## 868 -0.349649591 0.309199453 -0.570360813 -0.04580151 1.407044640
## 869 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 870 0.439627719 -0.167356312 -0.072909750 -0.04580151 0.291332032
## 871 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.739701366
## 872 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 873 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 874 0.881623013 -0.167356312 -0.311686260 -0.04580151 -0.282020280
## 875 -0.097080852 -0.042358078 0.066376548 -0.04580151 1.654980775
## 876 0.471198811 -0.167356312 0.464337399 -0.04580151 0.322324049
## 877 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 878 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.167363965
## 879 -0.349649591 -0.167356312 -0.152501920 -0.04580151 0.167363965

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 880 | 0.629054273  | -0.011108520 | 0.862298249  | -0.04580151 | -0.483468390 |
| ## 881 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 882 | -0.349649591 | 0.098264934  | 0.802604122  | -0.04580151 | 0.043395897  |
| ## 883 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 884 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 885 | 0.187058980  | -0.167356312 | -0.411176473 | -0.04580151 | 0.182859973  |
| ## 886 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 887 | 1.891897970  | -0.167356312 | 0.842400207  | -0.04580151 | -0.483468390 |
| ## 888 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 889 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.158052213 |
| ## 890 | 0.155487887  | 0.082640155  | 0.723011952  | -0.04580151 | 0.012403880  |
| ## 891 | -0.349649591 | -0.167356312 | 2.394447524  | -0.04580151 | -0.483468390 |
| ## 892 | -0.349649591 | -0.167356312 | 0.981686504  | -0.04580151 | -0.483468390 |
| ## 893 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 894 | 1.102620659  | -0.167356312 | 0.344949144  | -0.04580151 | -0.483468390 |
| ## 895 | -0.349649591 | 0.020141038  | 2.314855354  | -0.04580151 | 0.074387914  |
| ## 896 | -0.349649591 | 1.449808331  | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 897 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 898 | 3.375739312  | 0.137326882  | 0.603623696  | -0.04580151 | -0.483468390 |
| ## 899 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 900 | -0.349649591 | -0.167356312 | 1.160768887  | 0.50242971  | 0.864684345  |
| ## 901 | -0.065509759 | -0.018920910 | 1.379647355  | -0.04580151 | 0.725220269  |
| ## 902 | -0.349649591 | -0.167356312 | 0.882196292  | -0.04580151 | -0.483468390 |
| ## 903 | 3.060028388  | -0.167356312 | 1.578627780  | -0.04580151 | -0.483468390 |
| ## 904 | -0.349649591 | -0.167356312 | 0.524031526  | -0.04580151 | -0.142556204 |
| ## 905 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 906 | -0.349649591 | -0.167356312 | 1.459239525  | -0.04580151 | -0.483468390 |
| ## 907 | -0.349649591 | -0.167356312 | 2.533733822  | -0.04580151 | -0.483468390 |
| ## 908 | 0.502769904  | 0.043578207  | -0.033113665 | -0.04580151 | -0.483468390 |
| ## 909 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 910 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 911 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 912 | -0.349649591 | -0.167356312 | 0.464337399  | -0.04580151 | -0.483468390 |
| ## 913 | -0.349649591 | -0.167356312 | 6.533240370  | -0.04580151 | -0.483468390 |
| ## 914 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 915 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 916 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 917 | -0.349649591 | -0.167356312 | 0.902094334  | -0.04580151 | -0.483468390 |
| ## 918 | 0.976336290  | 0.192013609  | 0.185764803  | -0.04580151 | -0.189044230 |
| ## 919 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.515516699  |
| ## 920 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 921 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 3.359541704  |
| ## 922 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.143612497  |
| ## 923 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 1.500020691  |
| ## 924 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 3.204581620  |
| ## 925 | 0.344914442  | 0.176388830  | -0.570360813 | -0.04580151 | 1.577500733  |
| ## 926 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 927 | 2.112895616  | -0.167356312 | -0.570360813 | -0.04580151 | 0.120875939  |
| ## 928 | -0.160223037 | -0.167356312 | -0.072909750 | -0.04580151 | -0.096068179 |
| ## 929 | -0.349649591 | -0.167356312 | 2.971490757  | -0.04580151 | -0.096068179 |
| ## 930 | 2.586462002  | -0.167356312 | 1.280157142  | -0.04580151 | 0.957660395  |
| ## 931 | -0.349649591 | -0.018920910 | 1.578627780  | -0.04580151 | 0.740716277  |
| ## 932 | -0.349649591 | 0.363886180  | 0.106172633  | -0.04580151 | 0.043395897  |
| ## 933 | -0.349649591 | -0.167356312 | 0.384745229  | -0.04580151 | 0.632244218  |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 934 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 935 | -0.349649591 | -0.167356312 | 0.106172633  | -0.04580151 | -0.483468390 |
| ## 936 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 3.390533721  |
| ## 937 | 0.629054273  | -0.167356312 | 0.663317824  | -0.04580151 | -0.483468390 |
| ## 938 | 0.408056627  | -0.167356312 | -0.331584302 | -0.04580151 | -0.483468390 |
| ## 939 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 940 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 941 | 0.344914442  | 0.520133971  | 0.305153058  | -0.04580151 | -0.142556204 |
| ## 942 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 943 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 944 | -0.349649591 | 0.098264934  | 0.782706079  | -0.04580151 | -0.483468390 |
| ## 945 | -0.349649591 | -0.167356312 | 2.036282758  | -0.04580151 | -0.483468390 |
| ## 946 | -0.349649591 | 10.988736004 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 947 | 0.250201165  | -0.167356312 | -0.570360813 | -0.04580151 | -0.344004314 |
| ## 948 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.213851990  |
| ## 949 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.049580154 |
| ## 950 | 1.513044861  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 951 | -0.349649591 | -0.167356312 | 0.404643271  | -0.04580151 | 1.794444851  |
| ## 952 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 953 | 0.629054273  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 954 | -0.349649591 | -0.167356312 | 0.484235441  | -0.04580151 | 0.337820058  |
| ## 955 | -0.349649591 | -0.018920910 | -0.570360813 | -0.04580151 | 0.570260184  |
| ## 956 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 957 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 958 | -0.349649591 | -0.167356312 | 0.902094334  | -0.04580151 | -0.483468390 |
| ## 959 | -0.349649591 | 10.988736004 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 960 | 0.755338643  | -0.089232416 | 0.524031526  | -0.04580151 | 2.848173425  |
| ## 961 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.911172370  |
| ## 962 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 963 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 964 | -0.349649591 | -0.167356312 | 0.961788462  | -0.04580151 | 0.709724260  |
| ## 965 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 966 | 1.165762844  | -0.011108520 | 0.524031526  | -0.04580151 | -0.065076162 |
| ## 967 | -0.349649591 | 0.184201219  | -0.570360813 | -0.04580151 | 0.926668378  |
| ## 968 | -0.349649591 | 0.356073790  | 0.762808037  | -0.04580151 | 0.291332032  |
| ## 969 | -0.349649591 | -0.167356312 | 0.902094334  | -0.04580151 | -0.483468390 |
| ## 970 | 4.196587715  | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 971 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 972 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 973 | -0.349649591 | -0.167356312 | 1.737812120  | -0.04580151 | -0.483468390 |
| ## 974 | 2.996886204  | -0.167356312 | -0.570360813 | -0.04580151 | 1.159108505  |
| ## 975 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 976 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 977 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 978 | -0.349649591 | -0.167356312 | 0.543929569  | -0.04580151 | -0.483468390 |
| ## 979 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | -0.483468390 |
| ## 980 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 0.523772159  |
| ## 981 | 0.060774610  | -0.065795247 | -0.053011707 | -0.04580151 | -0.080572170 |
| ## 982 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151 | 4.304798219  |
| ## 983 | -0.191794129 | -0.167356312 | -0.371380387 | -0.04580151 | -0.235532255 |
| ## 984 | -0.349649591 | 0.442010075  | 2.533733822  | -0.04580151 | -0.483468390 |
| ## 985 | -0.349649591 | 0.574820698  | 1.319953227  | -0.04580151 | -0.483468390 |
| ## 986 | -0.349649591 | -0.167356312 | 0.165866761  | -0.04580151 | 0.089883922  |
| ## 987 | 0.250201165  | -0.167356312 | -0.570360813 | -0.04580151 | -0.344004314 |

```

## 988 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 989 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 990 1.765613600 -0.167356312 -0.132603877 -0.04580151 0.213851990
## 991 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 992 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 993 0.723767551 -0.128294364 0.583725654 -0.04580151 0.492780142
## 994 -0.349649591 -0.167356312 1.101074760 -0.04580151 0.384308083
## 995 -0.349649591 -0.167356312 0.842400207 -0.04580151 0.895676362
## 996 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 997 0.818480828 0.418572907 1.678117993 -0.04580151 0.089883922
## 998 -0.349649591 -0.167356312 6.791914922 -0.04580151 -0.483468390
## 999 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1000 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1001 -0.349649591 -0.167356312 5.458746073 -0.04580151 0.182859973
## 1002 1.071049567 0.535758750 1.220463015 -0.04580151 0.213851990
## 1003 -0.349649591 -0.167356312 0.703113909 -0.04580151 0.508276150
## 1004 -0.349649591 1.449808331 -0.570360813 -0.04580151 -0.483468390
## 1005 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1006 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1007 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1008 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1009 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.173548221
## 1010 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1011 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1012 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1013 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1014 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1015 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1016 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1017 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1018 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1019 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1020 -0.349649591 0.035765817 -0.053011707 -0.04580151 0.120875939
## 1021 0.313343349 -0.089232416 0.464337399 -0.04580151 1.469028674
## 1022 0.376485534 0.012328649 -0.570360813 -0.04580151 -0.127060196
## 1023 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1024 -0.349649591 -0.167356312 1.658219950 -0.04580151 0.384308083
## 1025 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.583726371
## 1026 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1027 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1028 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 1029 0.786909735 -0.167356312 0.145968718 -0.04580151 0.074387914
## 1030 -0.349649591 -0.167356312 1.757710163 -0.04580151 -0.483468390
## 1031 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1032 -0.349649591 0.340449011 -0.570360813 -0.04580151 0.523772159
## 1033 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1034 -0.349649591 -0.167356312 4.404149819 -0.04580151 -0.483468390
## 1035 -0.191794129 -0.128294364 0.225560888 -0.04580151 0.043395897
## 1036 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.065076162
## 1037 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1038 4.796438470 -0.167356312 2.673020119 -0.04580151 -0.483468390
## 1039 0.692196458 -0.042358078 0.086274591 -0.04580151 -0.483468390
## 1040 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1041 -0.349649591 -0.167356312 0.444439356 -0.04580151 1.112620480

```

```

## 1042 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1043 -0.349649591 0.082640155 -0.570360813 -0.04580151 -0.483468390
## 1044 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1045 -0.349649591 -0.167356312 0.643419781 -0.04580151 -0.483468390
## 1046 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1047 -0.349649591 -0.073607637 -0.331584302 -0.04580151 -0.483468390
## 1048 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1049 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1050 -0.349649591 -0.167356312 1.658219950 -0.04580151 0.384308083
## 1051 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1052 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1053 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.182859973
## 1054 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1055 -0.349649591 0.254512726 -0.570360813 -0.04580151 -0.483468390
## 1056 0.250201165 0.426385296 -0.192298005 -0.04580151 -0.189044230
## 1057 -0.349649591 -0.034545689 -0.570360813 -0.04580151 0.043395897
## 1058 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 1059 -0.349649591 0.270137505 0.543929569 -0.04580151 1.252084556
## 1060 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1061 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 1062 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 1063 -0.349649591 -0.065795247 0.504133484 -0.04580151 -0.065076162
## 1064 -0.349649591 -0.167356312 5.279663690 -0.04580151 -0.483468390
## 1065 -0.097080852 -0.167356312 -0.251992132 -0.04580151 -0.483468390
## 1066 -0.349649591 -0.167356312 1.041380632 -0.04580151 -0.065076162
## 1067 -0.349649591 -0.167356312 -0.251992132 -0.04580151 -0.235532255
## 1068 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1069 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 1070 1.039478475 -0.167356312 -0.570360813 -0.04580151 0.895676362
## 1071 8.395543004 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1072 2.397035448 -0.167356312 1.160768887 -0.04580151 -0.483468390
## 1073 4.796438470 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1074 -0.033938667 -0.167356312 0.902094334 0.08653017 -0.158052213
## 1075 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1076 -0.349649591 1.863864978 -0.570360813 -0.04580151 -0.483468390
## 1077 -0.160223037 -0.167356312 -0.092807792 -0.04580151 -0.328508306
## 1078 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1079 1.765613600 -0.167356312 0.762808037 -0.04580151 -0.483468390
## 1080 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1081 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.554764176
## 1082 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1083 -0.349649591 0.277949894 0.563827611 -0.04580151 1.283076573
## 1084 -0.349649591 0.262325115 1.638321908 -0.04580151 0.368812074
## 1085 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1086 0.723767551 -0.167356312 0.802604122 -0.04580151 -0.220036246
## 1087 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1088 0.755338643 0.192013609 0.046478506 -0.04580151 -0.251028263
## 1089 -0.349649591 -0.167356312 0.344949144 -0.04580151 0.229347998
## 1090 4.354443177 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1091 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1092 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.266524272
## 1093 -0.191794129 -0.167356312 -0.371380387 -0.04580151 -0.235532255
## 1094 1.765613600 -0.167356312 0.762808037 -0.04580151 3.700453890
## 1095 0.944765197 -0.167356312 1.916894503 -0.04580151 -0.173548221

```

```

## 1096 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 1097 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.778948843
## 1098 -0.349649591 0.270137505 -0.570360813 -0.04580151 0.384308083
## 1099 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1100 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 1101 -0.349649591 -0.167356312 0.862298249 -0.04580151 0.632244218
## 1102 -0.349649591 -0.018920910 0.603623696 -0.04580151 -0.189044230
## 1103 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1104 -0.349649591 0.043578207 -0.570360813 -0.04580151 -0.483468390
## 1105 -0.349649591 -0.097044805 -0.291788217 -0.04580151 1.128116488
## 1106 0.565912089 0.285762284 0.583725654 -0.04580151 0.864684345
## 1107 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1108 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1109 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1110 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1111 -0.349649591 -0.167356312 0.981686504 -0.04580151 -0.483468390
## 1112 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 1113 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1114 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.570260184
## 1115 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1116 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.136371948
## 1117 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1118 -0.349649591 0.371698569 0.802604122 -0.04580151 0.306828041
## 1119 -0.349649591 -0.167356312 2.135772971 -0.04580151 0.570260184
## 1120 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1121 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1122 -0.349649591 0.449822465 -0.570360813 -0.04580151 -0.483468390
## 1123 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1124 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1125 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1126 0.723767551 -0.167356312 2.812306417 -0.04580151 1.097124471
## 1127 -0.349649591 -0.167356312 -0.112705835 -0.04580151 0.229347998
## 1128 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1129 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 1130 0.471198811 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1131 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1132 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1133 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1134 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1135 -0.349649591 1.020126904 -0.570360813 -0.04580151 0.694228252
## 1136 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1137 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 1138 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1139 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1140 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1141 -0.349649591 0.574820698 1.319953227 -0.04580151 -0.483468390
## 1142 -0.349649591 -0.167356312 0.364847186 -0.04580151 1.732460817
## 1143 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1144 -0.349649591 0.270137505 1.658219950 -0.04580151 2.987637501
## 1145 1.355189399 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1146 1.260476121 -0.167356312 0.961788462 -0.04580151 -0.096068179
## 1147 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1148 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1149 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1150 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1151 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.483468390
## 1152 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1153 -0.349649591 0.199825999 -0.570360813 -0.04580151 -0.483468390
## 1154 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1155 1.355189399 -0.167356312 -0.570360813 -0.04580151 2.863669434
## 1156 -0.349649591 -0.167356312 -0.570360813 0.46462066 -0.483468390
## 1157 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1158 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.018588137
## 1159 1.734042508 -0.167356312 0.742909994 -0.04580151 -0.483468390
## 1160 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1161 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1162 0.502769904 0.043578207 -0.570360813 -0.04580151 0.802700311
## 1163 1.007907382 -0.167356312 0.285255016 -0.04580151 0.182859973
## 1164 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1165 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1166 -0.349649591 0.207638388 0.384745229 -0.04580151 0.260340015
## 1167 -0.349649591 -0.167356312 -0.251992132 -0.04580151 -0.235532255
## 1168 -0.349649591 1.668555239 -0.570360813 -0.04580151 1.329564598
## 1169 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1170 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1171 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1172 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.260340015
## 1173 1.165762844 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1174 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1175 -0.349649591 -0.057982857 -0.291788217 -0.04580151 -0.483468390
## 1176 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1177 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1178 -0.349649591 -0.167356312 -0.570360813 -0.04580151 7.667432051
## 1179 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.275836024
## 1180 -0.349649591 0.192013609 0.344949144 -0.04580151 1.685972792
## 1181 -0.349649591 0.231075557 -0.570360813 -0.04580151 -0.483468390
## 1182 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1183 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1184 -0.349649591 -0.081420026 0.126070676 -0.04580151 1.345060606
## 1185 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1186 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1187 -0.349649591 1.106063189 1.041380632 -0.04580151 -0.483468390
## 1188 -0.349649591 -0.167356312 1.837302333 -0.04580151 -0.483468390
## 1189 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1190 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1191 -0.349649591 0.465447244 2.354651439 -0.04580151 1.531012708
## 1192 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1193 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1194 -0.349649591 -0.167356312 -0.311686260 -0.04580151 -0.080572170
## 1195 -0.349649591 -0.167356312 1.041380632 -0.04580151 -0.483468390
## 1196 1.891897970 -0.057982857 0.265356973 -0.04580151 1.066132454
## 1197 0.692196458 0.090452544 -0.570360813 -0.04580151 -0.483468390
## 1198 0.692196458 0.488884413 0.762808037 -0.04580151 0.554764176
## 1199 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 1200 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1201 -0.349649591 0.020141038 -0.570360813 -0.04580151 -0.111564187
## 1202 1.165762844 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1203 -0.349649591 -0.167356312 0.782706079 -0.04580151 -0.483468390

```



```

## 1204 -0.349649591 -0.167356312 0.404643271 -0.04580151 -0.483468390
## 1205 -0.349649591 0.035765817 0.981686504 -0.04580151 -0.080572170
## 1206 -0.191794129 -0.167356312 0.006682421 -0.04580151 -0.127060196
## 1207 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 1208 -0.065509759 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1209 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1210 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1211 0.502769904 -0.128294364 -0.371380387 -0.04580151 -0.483468390
## 1212 2.176037801 -0.167356312 1.021482589 -0.04580151 1.995892961
## 1213 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.879165442
## 1214 -0.349649591 0.176388830 -0.570360813 -0.04580151 0.198355982
## 1215 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1216 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1217 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1218 -0.349649591 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 1219 0.660625366 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 1220 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1221 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1222 -0.349649591 -0.167356312 1.459239525 -0.04580151 -0.483468390
## 1223 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1224 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1225 -0.349649591 -0.167356312 1.976588631 -0.04580151 -0.483468390
## 1226 -0.349649591 -0.167356312 4.045985054 -0.04580151 -0.483468390
## 1227 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1228 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.825436868
## 1229 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1230 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1231 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 1232 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1233 -0.349649591 -0.167356312 1.280157142 -0.04580151 -0.003092128
## 1234 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.058891906
## 1235 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.879165442
## 1236 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1237 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1238 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 1239 -0.349649591 -0.167356312 0.305153058 -0.04580151 0.198355982
## 1240 -0.349649591 0.059202986 1.160768887 -0.04580151 -0.034084145
## 1241 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1242 -0.349649591 0.020141038 2.314855354 -0.04580151 0.074387914
## 1243 -0.349649591 0.363886180 0.106172633 -0.04580151 -0.483468390
## 1244 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1245 -0.349649591 0.723256100 1.698016035 -0.04580151 -0.483468390
## 1246 3.375739312 0.137326882 0.603623696 -0.04580151 -0.483468390
## 1247 -0.349649591 -0.167356312 0.603623696 -0.04580151 0.430796108
## 1248 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 1249 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1250 -0.349649591 -0.167356312 1.538831695 -0.04580151 -0.483468390
## 1251 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1252 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1253 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1254 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.902916910
## 1255 0.913194105 0.207638388 0.165866761 -0.04580151 -0.266524272
## 1256 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1257 -0.349649591 -0.167356312 0.145968718 -0.04580151 0.647740226

```

```

## 1258 -0.349649591 -0.167356312 2.354651439 -0.04580151 -0.483468390
## 1259 -0.349649591 -0.167356312 -0.112705835 -0.04580151 -0.483468390
## 1260 1.292047214 0.856066723 -0.053011707 -0.04580151 4.010374059
## 1261 -0.349649591 -0.167356312 3.946494841 -0.04580151 -0.483468390
## 1262 -0.349649591 -0.167356312 2.633224034 -0.04580151 -0.483468390
## 1263 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1264 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1265 1.007907382 0.168576440 0.285255016 -0.04580151 0.182859973
## 1266 -0.349649591 -0.167356312 -0.570360813 -0.04580151 8.116816296
## 1267 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 1268 -0.349649591 -0.167356312 -0.570360813 0.46462066 -0.483468390
## 1269 1.986611247 -0.167356312 -0.570360813 -0.04580151 0.663236235
## 1270 -0.349649591 0.363886180 -0.570360813 -0.04580151 -0.483468390
## 1271 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1272 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.049580154
## 1273 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1274 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.337820058
## 1275 -0.349649591 -0.167356312 -0.351482345 -0.04580151 -0.142556204
## 1276 -0.349649591 0.699818931 0.524031526 -0.04580151 -0.483468390
## 1277 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1278 -0.097080852 -0.104857195 0.941890419 -0.04580151 0.833692328
## 1279 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1280 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1281 0.187058980 -0.167356312 -0.232094090 -0.04580151 1.763452834
## 1282 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1283 -0.349649591 0.410760517 3.110777055 -0.04580151 -0.483468390
## 1284 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1285 0.123916795 -0.167356312 -0.271890175 -0.04580151 -0.483468390
## 1286 1.891897970 -0.167356312 -0.570360813 -0.04580151 7.264535832
## 1287 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1288 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1289 -0.349649591 -0.167356312 0.046478506 -0.04580151 0.492780142
## 1290 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1291 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.483468390
## 1292 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1293 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.012403880
## 1294 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.244844007
## 1295 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1296 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1297 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1298 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 1299 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 1300 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1301 -0.349649591 0.004516259 0.325051101 -0.04580151 0.570260184
## 1302 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1303 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1304 2.807459649 -0.167356312 1.419443440 -0.04580151 1.066132454
## 1305 -0.349649591 -0.167356312 1.896996461 -0.04580151 1.438036657
## 1306 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1307 -0.349649591 -0.167356312 0.583725654 -0.04580151 1.314068589
## 1308 -0.349649591 -0.167356312 0.265356973 -0.04580151 -0.483468390
## 1309 -0.349649591 -0.167356312 2.076078843 -0.04580151 2.274821113
## 1310 -0.349649591 -0.167356312 -0.212196047 -0.04580151 -0.483468390
## 1311 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1312 -0.349649591 -0.167356312 6.970997305 -0.04580151 -0.483468390
## 1313 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1314 -0.349649591 -0.167356312 -0.411176473 -0.04580151 -0.483468390
## 1315 0.155487887 0.082640155 0.723011952 -0.04580151 0.012403880
## 1316 -0.349649591 0.535758750 3.031184885 -0.04580151 -0.483468390
## 1317 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1318 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1319 1.481473768 -0.167356312 0.583725654 0.31968597 0.415300100
## 1320 -0.065509759 -0.097044805 0.145968718 -0.04580151 0.926668378
## 1321 -0.349649591 -0.018920910 -0.570360813 -0.04580151 -0.483468390
## 1322 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1323 0.944765197 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1324 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 1325 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.353316066
## 1326 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1327 0.913194105 0.145139271 -0.570360813 -0.04580151 -0.483468390
## 1328 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1329 0.123916795 -0.167356312 -0.271890175 -0.04580151 -0.483468390
## 1330 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1331 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1332 0.344914442 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1333 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1334 -0.349649591 -0.167356312 0.086274591 -0.04580151 0.027899889
## 1335 0.187058980 -0.167356312 -0.232094090 0.23146485 -0.220036246
## 1336 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1337 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1338 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1339 1.544615953 -0.167356312 -0.570360813 -0.04580151 1.391548632
## 1340 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1341 -0.349649591 -0.104857195 -0.072909750 -0.04580151 0.818196319
## 1342 0.471198811 0.035765817 -0.570360813 -0.04580151 0.322324049
## 1343 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1344 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.080572170
## 1345 -0.349649591 -0.167356312 -0.152501920 -0.04580151 -0.158052213
## 1346 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.446292117
## 1347 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1348 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1349 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1350 0.218630072 -0.167356312 -0.212196047 -0.04580151 1.949404936
## 1351 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1352 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1353 1.860326877 -0.167356312 1.518933653 -0.04580151 -0.483468390
## 1354 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 1355 -0.349649591 -0.034545689 -0.570360813 -0.04580151 -0.220036246
## 1356 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1357 -0.349649591 -0.167356312 -0.271890175 -0.04580151 -0.018588137
## 1358 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1359 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.167363965
## 1360 -0.349649591 -0.167356312 -0.112705835 -0.04580151 -0.483468390
## 1361 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1362 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1363 0.092345703 -0.057982857 0.006682421 -0.04580151 -0.483468390
## 1364 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1365 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1366 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.849188336
## 1367 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 1368 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1369 -0.349649591 0.817004775 -0.570360813 -0.04580151 -0.483468390
## 1370 -0.349649591 0.176388830 1.200564972 -0.04580151 0.198355982
## 1371 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1372 -0.349649591 0.137326882 -0.570360813 -0.04580151 -0.483468390
## 1373 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1374 -0.349649591 0.832629554 -0.570360813 -0.04580151 -0.483468390
## 1375 -0.191794129 -0.167356312 0.046478506 -0.04580151 -0.483468390
## 1376 -0.349649591 1.754491524 -0.570360813 -0.04580151 -0.483468390
## 1377 -0.349649591 -0.167356312 -0.391278430 -0.04580151 -0.344004314
## 1378 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1379 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1380 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1381 -0.349649591 0.473259634 0.066376548 -0.04580151 1.283076573
## 1382 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1383 2.365464356 -0.167356312 1.140870845 -0.04580151 -0.483468390
## 1384 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1385 1.544615953 -0.167356312 0.145968718 -0.04580151 1.747956826
## 1386 -0.097080852 -0.104857195 0.643419781 -0.04580151 -0.483468390
## 1387 2.112895616 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1388 -0.349649591 -0.167356312 -0.152501920 -0.04580151 -0.483468390
## 1389 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.430796108
## 1390 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.508276150
## 1391 2.112895616 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1392 5.964568889 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1393 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1394 -0.349649591 -0.167356312 1.319953227 -0.04580151 -0.003092128
## 1395 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1396 -0.128651944 -0.167356312 -0.271890175 -0.04580151 -0.374996331
## 1397 1.449902676 -0.167356312 0.563827611 -0.04580151 -0.483468390
## 1398 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1399 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1400 0.692196458 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1401 -0.128651944 -0.143919143 -0.212196047 -0.04580151 -0.328508306
## 1402 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1403 -0.349649591 0.457634855 -0.570360813 -0.04580151 0.756212286
## 1404 1.828755785 -0.167356312 -0.570360813 -0.04580151 1.670476784
## 1405 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1406 -0.349649591 -0.167356312 0.245458931 -0.04580151 -0.483468390
## 1407 -0.349649591 -0.167356312 5.836808881 -0.04580151 4.506246329
## 1408 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.189044230
## 1409 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1410 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1411 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.004148421
## 1412 -0.349649591 -0.167356312 0.344949144 -0.04580151 -0.127060196
## 1413 -0.349649591 7.270038565 -0.570360813 -0.04580151 -0.483468390
## 1414 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1415 -0.349649591 1.004502125 2.414345566 -0.04580151 0.678732243
## 1416 0.344914442 0.004516259 -0.132603877 -0.04580151 2.259325105
## 1417 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1418 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1419 -0.349649591 -0.167356312 0.305153058 -0.04580151 1.592996741

```

```

## 1420 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1421 -0.349649591 0.074827765 0.046478506 -0.04580151 -0.483468390
## 1422 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1423 -0.191794129 0.067015376 0.225560888 -0.04580151 -0.328508306
## 1424 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.933908927
## 1425 -0.349649591 -0.167356312 1.916894503 -0.04580151 0.477284134
## 1426 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.049580154
## 1427 -0.349649591 0.262325115 0.524031526 -0.04580151 1.221092539
## 1428 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1429 -0.191794129 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1430 1.197333937 0.051390597 0.225560888 -0.04580151 -0.344004314
## 1431 -0.349649591 0.262325115 -0.570360813 -0.04580151 -0.483468390
## 1432 1.386760491 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1433 2.207608894 -0.167356312 1.041380632 -0.04580151 0.771708294
## 1434 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.120875939
## 1435 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1436 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 1437 -0.349649591 0.035765817 1.001584547 -0.04580151 -0.080572170
## 1438 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1439 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1440 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1441 -0.349649591 -0.167356312 -0.570360813 0.21886184 0.818196319
## 1442 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1443 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1444 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1445 0.060774610 -0.167356312 -0.053011707 -0.04580151 0.523772159
## 1446 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.469028674
## 1447 0.723767551 0.637319815 0.106172633 -0.04580151 1.112620480
## 1448 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1449 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1450 2.870601834 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1451 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.794444851
## 1452 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 1453 1.891897970 -0.167356312 0.842400207 -0.04580151 -0.483468390
## 1454 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1455 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1456 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 1457 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1458 -0.033938667 -0.128294364 -0.371380387 -0.04580151 -0.003092128
## 1459 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1460 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1461 -0.349649591 -0.167356312 -0.570360813 26.93095513 1.500020691
## 1462 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 1463 -0.349649591 -0.167356312 1.379647355 0.26297240 -0.483468390
## 1464 0.187058980 -0.034545689 -0.570360813 -0.04580151 0.322324049
## 1465 4.196587715 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1466 1.891897970 -0.167356312 0.842400207 -0.04580151 -0.483468390
## 1467 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1468 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1469 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1470 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1471 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 1472 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1473 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1474 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1475 -0.349649591 -0.167356312 0.364847186 -0.04580151 1.716964809
## 1476 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1477 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1478 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1479 -0.349649591 -0.167356312 -0.570360813 -0.04580151 3.204581620
## 1480 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1481 0.344914442 0.176388830 -0.570360813 -0.04580151 1.577500733
## 1482 -0.349649591 -0.167356312 1.678117993 -0.04580151 1.267580564
## 1483 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1484 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1485 0.218630072 -0.167356312 -0.212196047 -0.04580151 1.949404936
## 1486 1.355189399 -0.065795247 0.185764803 -0.04580151 -0.405988348
## 1487 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1488 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1489 -0.349649591 -0.167356312 0.265356973 -0.04580151 0.508276150
## 1490 0.250201165 -0.167356312 -0.570360813 -0.04580151 -0.344004314
## 1491 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1492 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1493 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1494 -0.349649591 0.277949894 0.563827611 -0.04580151 1.283076573
## 1495 -0.349649591 -0.167356312 -0.570360813 0.68517345 -0.483468390
## 1496 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1497 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1498 -0.033938667 -0.167356312 0.902094334 0.08653017 -0.158052213
## 1499 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1500 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1501 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1502 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1503 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1504 2.176037801 -0.167356312 1.021482589 -0.04580151 1.995892961
## 1505 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1506 -0.349649591 -0.167356312 -0.033113665 -0.04580151 0.771708294
## 1507 1.134191752 0.567008309 1.300055185 -0.04580151 0.244844007
## 1508 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1509 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1510 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.198355982
## 1511 -0.349649591 -0.167356312 0.782706079 -0.04580151 0.570260184
## 1512 -0.349649591 0.363886180 -0.570360813 -0.04580151 5.838903055
## 1513 5.964568889 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1514 2.807459649 -0.167356312 0.086274591 -0.04580151 0.539268167
## 1515 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1516 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1517 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1518 -0.349649591 -0.167356312 -0.570360813 0.21886184 0.818196319
## 1519 -0.349649591 -0.167356312 0.185764803 -0.04580151 0.694228252
## 1520 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1521 0.629054273 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1522 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1523 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1524 2.018182339 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1525 -0.349649591 -0.167356312 0.026580463 -0.04580151 -0.018588137
## 1526 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1527 0.565912089 -0.018920910 0.782706079 -0.04580151 -0.483468390

```

```

## 1528 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1529 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1530 -0.349649591 -0.167356312 0.524031526 -0.04580151 0.368812074
## 1531 -0.349649591 -0.167356312 1.120972802 -0.04580151 1.623988758
## 1532 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1533 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1534 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1535 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1536 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1537 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1538 -0.349649591 -0.151731532 -0.470870600 -0.04580151 -0.452476373
## 1539 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1540 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.453532665
## 1541 -0.349649591 0.231075557 -0.570360813 -0.04580151 1.097124471
## 1542 -0.349649591 0.004516259 0.325051101 -0.04580151 0.570260184
## 1543 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1544 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.483468390
## 1545 -0.349649591 -0.167356312 3.906698756 -0.04580151 -0.483468390
## 1546 -0.349649591 -0.167356312 2.394447524 -0.04580151 -0.483468390
## 1547 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1548 -0.349649591 -0.167356312 2.772510332 -0.04580151 0.027899889
## 1549 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1550 8.648111743 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1551 -0.349649591 0.051390597 -0.570360813 -0.04580151 -0.483468390
## 1552 -0.349649591 0.895128671 1.220463015 -0.04580151 -0.483468390
## 1553 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1554 2.586462002 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1555 0.439627719 0.223263167 0.424541314 -0.04580151 -0.483468390
## 1556 -0.349649591 -0.167356312 1.638321908 -0.04580151 1.236588547
## 1557 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1558 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1559 -0.349649591 -0.167356312 5.379153903 0.21886184 0.167363965
## 1560 -0.349649591 -0.167356312 0.723011952 -0.04580151 0.523772159
## 1561 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1562 3.344168220 2.582604819 -0.570360813 -0.04580151 -0.483468390
## 1563 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.570260184
## 1564 -0.349649591 0.184201219 -0.570360813 -0.04580151 0.926668378
## 1565 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1566 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1567 0.597483181 -0.167356312 1.877098418 -0.04580151 1.902916910
## 1568 12.278787370 -0.167356312 1.419443440 -0.04580151 1.066132454
## 1569 -0.349649591 0.199825999 -0.570360813 -0.04580151 0.244844007
## 1570 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1571 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.027899889
## 1572 2.902172926 -0.167356312 -0.570360813 -0.04580151 1.112620480
## 1573 0.060774610 -0.089232416 0.524031526 -0.04580151 -0.452476373
## 1574 0.408056627 -0.167356312 1.399545397 -0.04580151 1.050636446
## 1575 2.460177633 -0.167356312 -0.570360813 -0.04580151 0.895676362
## 1576 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1577 -0.349649591 0.051390597 0.265356973 -0.04580151 -0.483468390
## 1578 -0.349649591 -0.167356312 2.434243609 -0.04580151 -0.483468390
## 1579 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 1580 -0.349649591 -0.167356312 1.936792546 -0.04580151 -0.483468390
## 1581 -0.191794129 -0.167356312 -0.271890175 -0.04580151 -0.405988348

```

```

## 1582 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1583 2.491748725 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1584 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1585 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1586 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1587 -0.349649591 -0.167356312 -0.212196047 -0.04580151 -0.204540238
## 1588 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1589 3.028457296 -0.167356312 1.558729738 -0.04580151 1.174604513
## 1590 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.234558726
## 1591 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.158052213
## 1592 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1593 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.933908927
## 1594 -0.349649591 0.254512726 -0.570360813 -0.04580151 -0.483468390
## 1595 1.292047214 -0.167356312 4.165373309 -0.04580151 -0.080572170
## 1596 -0.349649591 -0.065795247 -0.311686260 -0.04580151 -0.483468390
## 1597 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1598 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1599 1.228905029 0.168576440 -0.013215622 -0.04580151 -0.266524272
## 1600 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1601 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 1602 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.297516289
## 1603 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1604 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1605 -0.349649591 0.668569373 -0.570360813 -0.04580151 2.290317121
## 1606 -0.349649591 0.434197686 0.961788462 -0.04580151 0.709724260
## 1607 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.049580154
## 1608 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.647740226
## 1609 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1610 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1611 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1612 3.375739312 0.137326882 0.603623696 -0.04580151 -0.483468390
## 1613 -0.349649591 -0.167356312 0.205662846 -0.04580151 0.120875939
## 1614 -0.349649591 -0.167356312 -0.072909750 -0.04580151 0.105379931
## 1615 -0.349649591 -0.167356312 1.479137568 -0.04580151 1.112620480
## 1616 -0.349649591 -0.167356312 0.921992377 -0.04580151 0.678732243
## 1617 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.647740226
## 1618 -0.349649591 0.387323348 0.842400207 -0.04580151 0.058891906
## 1619 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1620 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.105379931
## 1621 -0.128651944 0.004516259 1.061278675 -0.04580151 0.322324049
## 1622 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1623 -0.349649591 -0.167356312 0.404643271 -0.04580151 1.794444851
## 1624 -0.033938667 -0.089232416 0.822502164 -0.04580151 0.446292117
## 1625 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1626 -0.349649591 -0.167356312 0.384745229 -0.04580151 0.632244218
## 1627 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1628 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.856428885
## 1629 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1630 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1631 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1632 -0.349649591 -0.018920910 -0.570360813 -0.04580151 0.570260184
## 1633 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1634 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1635 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```



```

## 1636 -0.349649591 0.254512726 0.504133484 -0.04580151 1.205596530
## 1637 -0.349649591 -0.167356312 1.737812120 -0.04580151 1.314068589
## 1638 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1639 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1640 -0.349649591 -0.167356312 0.524031526 -0.04580151 0.368812074
## 1641 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.267580564
## 1642 1.134191752 0.574820698 1.319953227 -0.04580151 0.244844007
## 1643 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1644 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1645 -0.097080852 -0.034545689 -0.232094090 -0.04580151 0.756212286
## 1646 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1647 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.182859973
## 1648 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1649 -0.349649591 -0.167356312 0.225560888 -0.04580151 -0.483468390
## 1650 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1651 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1652 1.860326877 -0.167356312 1.518933653 -0.04580151 -0.483468390
## 1653 1.228905029 -0.167356312 0.424541314 -0.04580151 1.856428885
## 1654 1.639329230 -0.167356312 0.683215866 -0.04580151 1.484524682
## 1655 0.913194105 0.035765817 1.280157142 -0.04580151 -0.483468390
## 1656 -0.033938667 -0.167356312 -0.371380387 -0.04580151 -0.483468390
## 1657 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1658 -0.349649591 -0.167356312 -0.072909750 -0.04580151 -0.096068179
## 1659 -0.349649591 0.074827765 0.265356973 -0.04580151 -0.483468390
## 1660 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1661 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1662 -0.349649591 -0.167356312 0.643419781 -0.04580151 -0.483468390
## 1663 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1664 -0.349649591 0.270137505 0.543929569 -0.04580151 3.034125527
## 1665 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1666 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1667 0.187058980 -0.167356312 0.126070676 -0.04580151 0.337820058
## 1668 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.491765231
## 1669 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1670 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1671 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1672 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1673 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.004148421
## 1674 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1675 0.250201165 -0.018920910 0.006682421 -0.04580151 1.174604513
## 1676 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 1677 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1678 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 1679 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1680 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.483468390
## 1681 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1682 -0.349649591 -0.167356312 0.265356973 -0.04580151 -0.483468390
## 1683 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1684 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1685 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1686 -0.349649591 -0.167356312 1.220463015 -0.04580151 -0.483468390
## 1687 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1688 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1689 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.275836024

```

|         |              |              |              |              |               |             |
|---------|--------------|--------------|--------------|--------------|---------------|-------------|
| ## 1690 | -0.097080852 | -0.104857195 | 0.941890419  | -0.04580151  | 0.833692328   |             |
| ## 1691 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1692 | -0.349649591 | -0.167356312 | -0.092807792 | -0.04580151  | 0.632244218   |             |
| ## 1693 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1694 | -0.033938667 | -0.167356312 | -0.371380387 | -0.04580151  | 0.136371948   |             |
| ## 1695 | -0.349649591 | -0.167356312 | 1.319953227  | -0.04580151  | -0.003092128  |             |
| ## 1696 | 2.302322171  | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1697 | 0.502769904  | 0.043578207  | -0.033113665 | -0.04580151  | -0.483468390  |             |
| ## 1698 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1699 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1700 | -0.349649591 | 0.527946361  | 1.717914078  | -0.04580151  | -0.297516289  |             |
| ## 1701 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1702 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1703 | -0.349649591 | 0.809192385  | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1704 | -0.349649591 | 10.988736004 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1705 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1706 | -0.349649591 | -0.167356312 | 2.115874928  | -0.04580151  | 0.554764176   |             |
| ## 1707 | -0.349649591 | -0.167356312 | -0.013215622 | -0.04580151  | -0.235532255  |             |
| ## 1708 | -0.002367575 | -0.128294364 | -0.132603877 | -0.04580151  | -0.142556204  |             |
| ## 1709 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1710 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1711 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1712 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1713 | 1.355189399  | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1714 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1715 | -0.349649591 | -0.167356312 | 2.533733822  | -0.04580151  | -0.483468390  |             |
| ## 1716 | 5.964568889  | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1717 | 0.597483181  | -0.011108520 | 0.026580463  | -0.04580151  | -0.173548221  |             |
| ## 1718 | 3.375739312  | 0.137326882  | 0.603623696  | -0.04580151  | -0.483468390  |             |
| ## 1719 | -0.349649591 | -0.167356312 | 6.791914922  | -0.04580151  | -0.483468390  |             |
| ## 1720 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1721 | -0.097080852 | -0.104857195 | 0.126070676  | -0.04580151  | 1.871924893   |             |
| ## 1722 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ## 1723 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | 0.291332032   |             |
| ## 1724 | -0.349649591 | -0.167356312 | -0.570360813 | -0.04580151  | -0.483468390  |             |
| ##      | V6           | V7           | V8           | V9           | V10           | V11         |
| ## 1    | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 2    | -0.34068756  | -0.28188159  | -0.27887059  | 0.075848749  | -0.0306305629 | -0.29459327 |
| ## 3    | 0.07419145   | -0.28188159  | 0.06915900   | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 4    | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 5    | 1.06351834   | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 6    | 1.35074227   | -0.28188159  | -0.27887059  | -0.320389910 | 0.4331374305  | -0.29459327 |
| ## 7    | -0.34068756  | -0.28188159  | 1.94316449   | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 8    | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 9    | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 10   | -0.34068756  | -0.28188159  | -0.27887059  | 0.400044016  | 0.0775819689  | 0.24363128  |
| ## 11   | -0.34068756  | -0.28188159  | -0.27887059  | 2.381237312  | 5.4572906930  | -0.29459327 |
| ## 12   | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | 2.1336200732  | -0.29459327 |
| ## 13   | -0.18111871  | -0.28188159  | -0.27887059  | 1.480694905  | -0.3861860246 | -0.29459327 |
| ## 14   | -0.34068756  | -0.28188159  | -0.27887059  | 0.904347764  | 2.2418326050  | -0.29459327 |
| ## 15   | -0.34068756  | 0.82339697   | -0.27887059  | -0.320389910 | 1.1287894207  | -0.29459327 |
| ## 16   | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 17   | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | 1.5152627486  | -0.29459327 |
| ## 18   | -0.34068756  | -0.28188159  | -0.27887059  | -0.320389910 | -0.3861860246 | -0.29459327 |

|       |             |             |             |              |               |             |
|-------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 19 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0312051695  | -0.29459327 |
| ## 20 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 21 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 22 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 23 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 24 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.8505286246  | -0.29459327 |
| ## 25 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 26 | -0.11729117 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 0.45892110  |
| ## 27 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 28 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 29 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 30 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 31 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 32 | -0.34068756 | -0.28188159 | -0.27887059 | 2.957584453  | -0.3861860246 | -0.29459327 |
| ## 33 | 0.52098424  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 34 | -0.34068756 | -0.28188159 | 3.22819682  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 35 | -0.34068756 | 0.48504639  | -0.27887059 | -0.320389910 | 0.1394177013  | -0.29459327 |
| ## 36 | -0.34068756 | -0.28188159 | 1.83607846  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 37 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 38 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 6.9722661383  | -0.29459327 |
| ## 39 | 0.80820817  | 2.17679929  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 40 | -0.08537740 | -0.10142795 | 0.87230421  | -0.032216339 | -0.2625145597 | -0.29459327 |
| ## 41 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 42 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 43 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 44 | -0.34068756 | -0.28188159 | -0.27887059 | 2.921562756  | -0.3861860246 | -0.29459327 |
| ## 45 | -0.34068756 | 0.03391228  | -0.27887059 | -0.320389910 | 0.2785480994  | 1.26625792  |
| ## 46 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 47 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 48 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 49 | -0.34068756 | 1.34220119  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 50 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 51 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 52 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 53 | -0.34068756 | 0.03391228  | -0.27887059 | -0.320389910 | 0.2630891663  | 0.45892110  |
| ## 54 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 55 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 56 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 57 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 7.7452127941  | -0.29459327 |
| ## 58 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 59 | 1.03160456  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 60 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 61 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 62 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 63 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 64 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 65 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 66 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 67 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.4379680830  | -0.29459327 |
| ## 68 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 69 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 70 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 71 | 0.68055309  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 72 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 73  | -0.34068756 | 1.11663414  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 74  | 2.97834456  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 75  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 76  | 0.80820817  | -0.14654136 | -0.11824155 | -0.104259732 | -0.2006788272 | 0.02834146  |
| ## 77  | 1.47839735  | -0.28188159 | -0.27887059 | -0.320389910 | 0.0466641026  | -0.29459327 |
| ## 78  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.3403838318  | -0.29459327 |
| ## 79  | -0.34068756 | -0.28188159 | 1.70222093  | 5.046842837  | -0.3861860246 | -0.29459327 |
| ## 80  | -0.34068756 | 0.84595367  | 0.39041708  | -0.320389910 | 1.1751662201  | -0.29459327 |
| ## 81  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 82  | 1.82944883  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 83  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 84  | -0.34068756 | -0.28188159 | -0.27887059 | 0.219935535  | -0.1543020279 | 1.32008038  |
| ## 85  | 0.87203571  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 86  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 87  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 6.9722661383  | -0.29459327 |
| ## 88  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.2167123669  | -0.29459327 |
| ## 89  | 0.13801899  | -0.28188159 | -0.09147004 | -0.068238036 | -0.3861860246 | -0.29459327 |
| ## 90  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 5.3027013619  | -0.29459327 |
| ## 91  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 2.4118808693  | -0.29459327 |
| ## 92  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 93  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 94  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.7268571597  | -0.29459327 |
| ## 95  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 5.3336192281  | -0.29459327 |
| ## 96  | -0.08537740 | -0.28188159 | -0.27887059 | 0.255957231  | -0.3861860246 | 0.13598637  |
| ## 97  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 98  | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 99  | 1.51031112  | 0.03391228  | 1.27387681  | -0.320389910 | 0.2785480994  | -0.29459327 |
| ## 100 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 101 | -0.34068756 | 0.14669581  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 102 | 1.79753505  | -0.28188159 | 0.14947352  | 4.506517393  | 0.1239587682  | -0.29459327 |
| ## 103 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 104 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 105 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 106 | -0.34068756 | -0.28188159 | -0.27887059 | 0.508109105  | -0.0306305629 | 0.94332319  |
| ## 107 | -0.02154986 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 108 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 109 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 110 | 1.41456981  | 4.74826369  | -0.27887059 | -0.320389910 | 0.4640552967  | -0.29459327 |
| ## 111 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.1548766344  | -0.29459327 |
| ## 112 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 113 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 114 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 115 | -0.34068756 | 0.66550003  | -0.27887059 | -0.320389910 | -0.0615484292 | 0.83567828  |
| ## 116 | -0.34068756 | -0.28188159 | 0.25655955  | -0.320389910 | -0.0770073623 | -0.29459327 |
| ## 117 | 2.34006915  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 118 | 2.59537932  | -0.28188159 | 6.28014862  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 119 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 120 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 121 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 122 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 123 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 124 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 125 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 126 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 127 | -0.34068756 | 0.50760309  | 0.65813215  | -0.320389910 | -0.1233841616 | 0.62038847  |
| ## 128 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 129 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.1751662201  | -0.29459327 |
| ## 130 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 131 | -0.34068756 | 0.84595367  | 1.05970476  | -0.320389910 | 1.1751662201  | -0.29459327 |
| ## 132 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 133 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 134 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 135 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 136 | 0.26567407  | -0.28188159 | -0.27887059 | 0.003805357  | 0.2167123669  | -0.29459327 |
| ## 137 | 0.61672555  | -0.28188159 | -0.27887059 | -0.320389910 | 0.0775819689  | 1.32008038  |
| ## 138 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 139 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 140 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 141 | -0.34068756 | 2.13168588  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 142 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 143 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 144 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 145 | 0.42524293  | -0.19165477 | -0.17178456 | 0.544130801  | -0.3861860246 | -0.29459327 |
| ## 146 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 147 | -0.34068756 | -0.28188159 | -0.03792703 | -0.320389910 | -0.3861860246 | 0.67421092  |
| ## 148 | -0.34068756 | 0.14669581  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 149 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 6.32556867  |
| ## 150 | -0.05346363 | -0.28188159 | 0.20301653  | 0.003805357  | -0.3861860246 | -0.29459327 |
| ## 151 | 0.39332916  | -0.19165477 | 3.04079627  | 1.120477942  | 0.2321713000  | 0.29745374  |
| ## 152 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 153 | 2.81877571  | -0.28188159 | -0.27887059 | -0.320389910 | 1.1442483538  | 5.03382976  |
| ## 154 | -0.08537740 | -0.28188159 | -0.06469854 | -0.032216339 | -0.2625145597 | 0.62038847  |
| ## 155 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 156 | 1.89327637  | 0.50760309  | 3.49591189  | -0.320389910 | -0.3861860246 | 1.58919265  |
| ## 157 | 1.57413866  | -0.28188159 | -0.27887059 | 1.840911868  | -0.3861860246 | -0.29459327 |
| ## 158 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 159 | 4.89317079  | -0.28188159 | 0.44396010  | 1.624781690  | 0.4485963636  | -0.29459327 |
| ## 160 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 161 | -0.08537740 | -0.28188159 | -0.27887059 | -0.032216339 | -0.2625145597 | 0.13598637  |
| ## 162 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 163 | 1.47839735  | -0.28188159 | 1.24710531  | 3.822105163  | 1.3915912837  | -0.29459327 |
| ## 164 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 165 | -0.34068756 | -0.28188159 | 2.37150860  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 166 | 0.45715670  | -0.28188159 | 0.39041708  | -0.032216339 | -0.3861860246 | -0.29459327 |
| ## 167 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 168 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 169 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 170 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 2.6128469998  | -0.29459327 |
| ## 171 | -0.34068756 | 0.10158240  | 0.17624503  | -0.320389910 | -0.1233841616 | -0.29459327 |
| ## 172 | -0.34068756 | -0.28188159 | 0.73844667  | 1.048434549  | -0.3861860246 | -0.29459327 |
| ## 173 | 0.93586325  | -0.28188159 | -0.27887059 | -0.320389910 | 0.8659875577  | -0.29459327 |
| ## 174 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.1852198941 | -0.29459327 |
| ## 175 | 0.39332916  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 176 | 1.73370751  | -0.28188159 | 1.46127736  | -0.320389910 | 0.6186446279  | -0.29459327 |
| ## 177 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 178 | 1.03160456  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 179 | 2.02093145  | -0.28188159 | 7.64549548  | -0.320389910 | 4.1896581776  | -0.29459327 |
| ## 180 | 2.78686194  | 0.14669581  | 0.22978804  | 4.650604178  | 0.2167123669  | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 181 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 182 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 183 | 2.78686194  | 0.14669581  | 0.22978804  | 4.650604178  | 0.2167123669  | -0.29459327 |
| ## 184 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 185 | -0.34068756 | 0.05646899  | -0.27887059 | -0.320389910 | 0.3094659656  | 0.51274356  |
| ## 186 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 187 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.4640552967  | -0.29459327 |
| ## 188 | -0.34068756 | -0.28188159 | -0.27887059 | 6.199537119  | -0.3861860246 | -0.29459327 |
| ## 189 | 1.09543211  | -0.28188159 | 0.01561599  | 3.353823112  | 2.0717843407  | 0.29745374  |
| ## 190 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 191 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 192 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 193 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 194 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 5.4418317599  | -0.29459327 |
| ## 195 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 196 | -0.34068756 | 3.32719126  | -0.27887059 | -0.320389910 | 0.4331374305  | -0.29459327 |
| ## 197 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 198 | 0.45715670  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 199 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 200 | 1.44648358  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 201 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 202 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0930409020  | -0.29459327 |
| ## 203 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 204 | 3.87193013  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 205 | -0.34068756 | 0.10158240  | 1.11324777  | -0.320389910 | -0.1233841616 | 1.58919265  |
| ## 206 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 207 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 208 | 0.77629440  | -0.16909807 | -0.14501306 | -0.140281428 | -0.3088913590 | -0.02548099 |
| ## 209 | -0.34068756 | 0.93618049  | -0.27887059 | 1.624781690  | 1.2988376850  | -0.29459327 |
| ## 210 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 2.23506211  |
| ## 211 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 212 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 213 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 214 | -0.08537740 | -0.10142795 | 0.84553270  | -0.032216339 | -0.2625145597 | -0.29459327 |
| ## 215 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 216 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.7935235447  | -0.29459327 |
| ## 217 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 218 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 219 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 220 | -0.34068756 | 1.25197437  | -0.27887059 | -0.320389910 | 0.1394177013  | 1.53537020  |
| ## 221 | 1.35074227  | -0.28188159 | -0.27887059 | -0.320389910 | 2.0717843407  | -0.29459327 |
| ## 222 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 223 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 224 | 1.73370751  | 0.43993298  | 0.57781763  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 225 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 226 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 227 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 228 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.3867606312  | -0.29459327 |
| ## 229 | 0.68055309  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 230 | 0.01036391  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 231 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 232 | 0.13801899  | -0.28188159 | -0.27887059 | 2.921562756  | -0.3861860246 | -0.29459327 |
| ## 233 | 0.07419145  | -0.16909807 | 0.41718859  | 1.264564727  | 0.7886928922  | 1.10479056  |
| ## 234 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 235 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 2.9684024614  | -0.29459327 |
| ## 236 | 0.48907047  | -0.28188159 | -0.27887059 | -0.320389910 | 0.0157462364  | -0.29459327 |
| ## 237 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 238 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 239 | 0.68055309  | -0.28188159 | 1.46127736  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 240 | 2.14858653  | -0.28188159 | -0.27887059 | -0.320389910 | 0.8196107584  | -0.29459327 |
| ## 241 | 0.01036391  | -0.28188159 | -0.27887059 | 1.912955260  | -0.3861860246 | -0.29459327 |
| ## 242 | -0.24494625 | -0.28188159 | 0.20301653  | 1.624781690  | 0.5722678286  | 1.26625792  |
| ## 243 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 244 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 245 | -0.34068756 | -0.28188159 | 2.58568066  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 246 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 247 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 248 | -0.34068756 | 1.52265483  | -0.27887059 | -0.320389910 | 0.8505286246  | -0.29459327 |
| ## 249 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 250 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 251 | 2.59537932  | -0.28188159 | 6.28014862  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 252 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 253 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 254 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 255 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 256 | 0.29758784  | 0.16925251  | -0.27887059 | -0.320389910 | 1.2215430194  | 0.78185583  |
| ## 257 | -0.08537740 | -0.10142795 | 0.84553270  | -0.032216339 | -0.2625145597 | -0.29459327 |
| ## 258 | -0.34068756 | -0.28188159 | 0.04238749  | 0.580152498  | -0.2006788272 | 0.35127619  |
| ## 259 | -0.34068756 | -0.28188159 | 0.01561599  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 260 | 3.29748226  | 0.16925251  | 1.38096284  | 3.425866504  | 0.4176784974  | 0.78185583  |
| ## 261 | 0.10610522  | 0.34970616  | 0.47073160  | -0.320389910 | 0.2785480994  | 0.45892110  |
| ## 262 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 263 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 264 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 265 | -0.34068756 | -0.28188159 | 1.78253545  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 266 | -0.34068756 | -0.28188159 | 2.71953819  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 267 | 0.13801899  | -0.28188159 | -0.09147004 | -0.068238036 | -0.3861860246 | -0.29459327 |
| ## 268 | -0.34068756 | 2.49259316  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 269 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 270 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 271 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0312051695  | -0.29459327 |
| ## 272 | -0.34068756 | -0.28188159 | -0.27887059 | 0.652195890  | -0.3861860246 | -0.29459327 |
| ## 273 | -0.34068756 | -0.28188159 | 1.62190640  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 274 | -0.34068756 | 1.34220119  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 275 | -0.34068756 | -0.28188159 | -0.27887059 | 3.353823112  | 0.0621230358  | 0.45892110  |
| ## 276 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 277 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.4022195643  | 5.19529712  |
| ## 278 | -0.34068756 | 0.28203604  | -0.27887059 | -0.320389910 | 0.0002873033  | 1.05096810  |
| ## 279 | 0.39332916  | -0.12398466 | 0.33687407  | -0.320389910 | -0.0306305629 | 0.08216392  |
| ## 280 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 281 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 282 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 283 | -0.34068756 | -0.28188159 | 2.82662422  | -0.320389910 | 1.4070502168  | -0.29459327 |
| ## 284 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 285 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 286 | -0.34068756 | 3.53020161  | -0.27887059 | 2.705432579  | 0.9123643571  | -0.29459327 |
| ## 287 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 288 | -0.34068756 | 0.80084026  | -0.27887059 | -0.320389910 | 1.1133304876  | 2.28888456  |

```

## 289 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3403838318 -0.29459327
## 290 -0.34068756 -0.28188159 -0.27887059 -0.320389910 4.7616387028 -0.29459327
## 291 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 292 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 293 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 294 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 295 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 296 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 297 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 298 -0.34068756 0.19180922 -0.27887059 -0.320389910 -0.3861860246 0.83567828
## 299 -0.34068756 -0.28188159 -0.14501306 -0.320389910 0.1548766344 -0.29459327
## 300 0.23376030 0.55271650 1.22033380 -0.320389910 -0.3861860246 1.69683756
## 301 3.23365472 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 302 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 303 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3867606312 -0.29459327
## 304 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 305 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 306 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 307 -0.34068756 -0.28188159 -0.27887059 1.264564727 -0.2161377603 -0.29459327
## 308 -0.34068756 3.46253149 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 309 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.9722661383 -0.29459327
## 310 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 311 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 312 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 313 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 314 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 315 -0.34068756 1.07152073 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 316 0.01036391 -0.28188159 -0.27887059 3.389844808 -0.3861860246 -0.29459327
## 317 0.42524293 -0.28188159 0.14947352 -0.320389910 0.3713016981 0.13598637
## 318 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 319 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 320 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.7104312510 4.44178276
## 321 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 322 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1133304876 -0.29459327
## 323 -0.34068756 -0.28188159 -0.27887059 2.885541060 -0.3861860246 -0.29459327
## 324 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 325 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 326 -0.34068756 1.86100541 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 327 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 328 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 329 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 330 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 331 -0.34068756 -0.28188159 -0.27887059 0.364022320 0.2012534338 0.18980883
## 332 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 333 -0.34068756 -0.28188159 3.09433929 -0.320389910 -0.3861860246 -0.29459327
## 334 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3249248987 -0.29459327
## 335 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 336 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.3229909475 -0.29459327
## 337 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 338 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 339 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2370019525 -0.29459327
## 340 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 341 -0.34068756 0.01135558 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 342 0.87203571 -0.28188159 -0.27887059 -0.320389910 0.0002873033 3.15004384

```



```

## 343 -0.34068756 2.06401576 2.50536614 -0.320389910 1.2215430194 -0.29459327
## 344 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 345 2.53155177 0.16925251 1.05970476 2.561345793 0.8505286246 0.78185583
## 346 -0.34068756 -0.28188159 -0.27887059 0.868326068 0.1239587682 1.48154774
## 347 -0.34068756 -0.28188159 -0.27887059 1.516716601 -0.3861860246 -0.29459327
## 348 1.98901768 1.36475790 2.66599518 0.976391157 0.1703355676 -0.29459327
## 349 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 350 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 351 -0.34068756 -0.28188159 0.71167517 -0.320389910 -0.3861860246 -0.29459327
## 352 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9123643571 -0.29459327
## 353 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 354 -0.34068756 0.82339697 2.37150860 -0.320389910 3.4476293880 -0.29459327
## 355 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 356 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 357 1.79753505 0.07902569 0.60458914 -0.320389910 -0.1388430947 -0.29459327
## 358 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 359 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 360 1.35074227 -0.28188159 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 361 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 362 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 363 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 364 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 365 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 366 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 367 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 368 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 369 -0.34068756 -0.28188159 -0.27887059 3.353823112 -0.3861860246 -0.29459327
## 370 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 371 0.55289801 -0.28188159 -0.27887059 0.003805357 -0.3861860246 -0.29459327
## 372 -0.34068756 0.86851038 -0.27887059 -0.320389910 0.4022195643 -0.29459327
## 373 -0.34068756 -0.28188159 1.22033380 -0.320389910 -0.3861860246 -0.29459327
## 374 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 375 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 376 -0.34068756 -0.28188159 -0.27887059 0.147892142 -0.3861860246 -0.29459327
## 377 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 378 -0.34068756 -0.28188159 -0.27887059 0.472087409 -0.3861860246 -0.29459327
## 379 2.65920686 -0.28188159 0.20301653 1.012412853 0.7732339591 -0.29459327
## 380 -0.34068756 -0.28188159 3.33528285 -0.320389910 -0.3861860246 -0.29459327
## 381 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 5.67969922
## 382 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 383 -0.34068756 5.42496485 3.09433929 4.218343823 1.5616395479 6.48703604
## 384 -0.34068756 1.74822189 -0.27887059 -0.320389910 2.3964219362 4.54942767
## 385 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 386 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 387 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 388 -0.34068756 2.15424258 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 389 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 390 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 391 1.70179374 0.43993298 1.43450586 -0.320389910 -0.3861860246 -0.29459327
## 392 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 393 0.39332916 0.23692263 3.49591189 0.508109105 0.3403838318 0.94332319
## 394 0.99969079 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 395 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 396 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 397 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 398 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 399 -0.05346363 -0.28188159 0.47073160 -0.320389910 -0.3861860246 -0.29459327
## 400 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1852198941 -0.29459327
## 401 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 402 -0.24494625 -0.28188159 -0.19855607 -0.212324821 -0.2161377603 -0.29459327
## 403 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 404 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5877267617 1.37390283
## 405 1.41456981 4.68059358 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 406 0.20184653 -0.10142795 -0.27887059 0.580152498 -0.2625145597 -0.29459327
## 407 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0978715545 -0.29459327
## 408 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 2.01977229
## 409 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 410 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 411 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 412 -0.34068756 -0.28188159 -0.27887059 2.129085438 1.1906251532 -0.29459327
## 413 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 414 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 415 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 416 -0.34068756 -0.28188159 -0.27887059 2.849519364 -0.3861860246 -0.29459327
## 417 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 418 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 419 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 420 -0.34068756 1.29708778 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 421 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 422 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 423 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5722678286 -0.29459327
## 424 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 425 0.61672555 -0.28188159 -0.27887059 -0.320389910 0.0775819689 1.32008038
## 426 1.57413866 0.68805674 0.41718859 2.165107134 0.4176784974 1.10479056
## 427 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 428 2.02093145 0.25947933 1.70222093 0.544130801 -0.0151716298 0.99714565
## 429 7.41435865 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 430 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 431 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 432 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 433 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 434 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 435 -0.34068756 -0.28188159 2.61245216 -0.320389910 -0.3861860246 -0.29459327
## 436 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 437 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 438 -0.34068756 -0.28188159 -0.27887059 3.822105163 -0.3861860246 -0.29459327
## 439 0.84012194 0.55271650 -0.27887059 -0.320389910 0.7577750259 -0.29459327
## 440 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 441 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 442 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 443 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 444 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 445 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 446 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7268571597 -0.29459327
## 447 -0.34068756 -0.28188159 1.16679079 -0.320389910 1.2833787519 -0.29459327
## 448 0.80820817 -0.28188159 -0.27887059 -0.320389910 1.8553592771 -0.29459327
## 449 1.70179374 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 450 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 451 -0.02154986 0.16925251 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 452 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 453 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 -0.29459327
## 454 0.52098424 -0.28188159 3.38882587 0.652195890 0.8814464909 1.15861301
## 455 2.37198292 -0.28188159 -0.27887059 -0.320389910 0.2630891663 -0.29459327
## 456 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 457 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 458 -0.05346363 -0.28188159 0.71167517 -0.320389910 -0.3861860246 -0.29459327
## 459 1.28691473 -0.28188159 -0.27887059 0.580152498 -0.3861860246 1.05096810
## 460 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.7007699460 -0.29459327
## 461 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 462 -0.18111871 -0.28188159 -0.19855607 -0.140281428 -0.3088913590 -0.29459327
## 463 -0.34068756 2.04145906 1.08647626 -0.320389910 0.4022195643 -0.29459327
## 464 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 465 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 466 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.7056005985 -0.29459327
## 467 0.42524293 -0.28188159 -0.27887059 -0.320389910 -0.0151716298 -0.29459327
## 468 -0.34068756 0.73317015 2.15733654 1.300586423 1.0205768889 -0.29459327
## 469 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 470 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.96594984
## 471 -0.34068756 -0.28188159 1.11324777 -0.320389910 -0.3861860246 -0.29459327
## 472 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 473 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 474 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 475 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 476 -0.30877379 -0.28188159 -0.27887059 -0.284368213 -0.1852198941 -0.13312590
## 477 0.48907047 1.50009813 0.41718859 -0.320389910 0.8350696915 5.35676449
## 478 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 479 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 480 -0.08537740 -0.10142795 -0.06469854 2.165107134 3.3394168562 -0.29459327
## 481 0.10610522 -0.21421148 -0.09147004 1.660803386 0.6341035610 1.26625792
## 482 -0.34068756 3.73321195 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 483 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.6650214272 7.02526059
## 484 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 485 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 486 1.51031112 0.82339697 0.60458914 2.057042045 0.6341035610 0.99714565
## 487 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 488 0.01036391 -0.03375783 -0.27887059 0.472087409 -0.2161377603 0.29745374
## 489 0.39332916 0.23692263 -0.27887059 -0.320389910 -0.0306305629 -0.29459327
## 490 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 491 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 492 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 493 1.66987997 0.41737627 0.55104612 -0.320389910 -0.3861860246 -0.29459327
## 494 -0.34068756 -0.28188159 0.92584722 -0.320389910 2.3964219362 -0.29459327
## 495 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 496 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 497 -0.34068756 6.34978977 3.65654094 4.974799445 1.8862771434 7.61730759
## 498 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.1394177013 1.53537020
## 499 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 500 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 501 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 502 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 503 0.55289801 -0.28188159 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 504 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.8196107584 -0.29459327

```

```

## 505 -0.34068756 -0.28188159 -0.27887059 0.400044016 -0.3861860246 -0.29459327
## 506 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 507 -0.08537740 -0.10142795 0.87230421 -0.032216339 -0.2625145597 -0.29459327
## 508 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 509 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 510 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 511 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1857945007 -0.29459327
## 512 -0.34068756 -0.28188159 0.01561599 -0.320389910 -0.3861860246 -0.29459327
## 513 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 514 -0.34068756 -0.28188159 0.79198969 -0.320389910 1.4843448824 -0.29459327
## 515 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 -0.29459327
## 516 -0.34068756 -0.28188159 -0.27887059 0.075848749 -0.0306305629 -0.29459327
## 517 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 518 0.01036391 -0.28188159 -0.27887059 -0.320389910 -0.2161377603 -0.29459327
## 519 0.64863932 -0.28188159 -0.17178456 0.472087409 -0.3861860246 -0.18694836
## 520 0.01036391 -0.28188159 -0.27887059 1.912955260 -0.3861860246 -0.29459327
## 521 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 522 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 523 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 524 -0.18111871 -0.28188159 -0.27887059 1.480694905 -0.3861860246 -0.29459327
## 525 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 526 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 527 -0.34068756 -0.28188159 0.92584722 -0.320389910 -0.3861860246 -0.29459327
## 528 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 529 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 530 2.18050030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 531 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 532 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 533 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 534 0.45715670 -0.28188159 -0.27887059 2.417259008 -0.3861860246 -0.29459327
## 535 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 536 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 537 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 538 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9742000896 -0.29459327
## 539 -0.34068756 1.22941766 0.60458914 0.868326068 0.1239587682 -0.29459327
## 540 1.41456981 -0.28188159 0.44396010 -0.320389910 -0.3861860246 2.66564175
## 541 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 542 -0.34068756 -0.28188159 -0.27887059 3.678018378 -0.3861860246 -0.29459327
## 543 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 544 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 545 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 546 -0.08537740 -0.28188159 -0.06469854 2.309193919 -0.3861860246 -0.29459327
## 547 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 548 -0.34068756 -0.28188159 1.91639298 -0.320389910 -0.3861860246 -0.29459327
## 549 0.42524293 -0.19165477 -0.17178456 0.544130801 -0.3861860246 -0.29459327
## 550 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 551 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 552 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 553 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 554 0.87203571 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 555 -0.34068756 1.29708778 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 556 2.21241407 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 557 -0.34068756 1.38731460 -0.27887059 -0.320389910 1.9171950096 3.68826839
## 558 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 559 -0.34068756 -0.28188159 -0.27887059 1.048434549 0.2012534338 -0.29459327
## 560 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 561 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 562 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 563 0.01036391 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.29745374
## 564 -0.34068756 -0.28188159 -0.27887059 -0.320389910 4.7616387028 -0.29459327
## 565 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 566 -0.34068756 1.90611882 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 567 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 568 0.45715670 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 569 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 570 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3403838318 -0.29459327
## 571 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 572 -0.08537740 -0.10142795 0.84553270 -0.032216339 -0.2625145597 -0.29459327
## 573 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 574 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 575 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 576 -0.34068756 -0.28188159 0.14947352 -0.320389910 -0.3861860246 -0.29459327
## 577 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 578 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 579 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 580 -0.34068756 -0.28188159 3.28173984 -0.320389910 -0.3861860246 -0.29459327
## 581 -0.34068756 -0.28188159 -0.27887059 0.400044016 0.2476302331 -0.29459327
## 582 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 583 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 584 -0.34068756 -0.28188159 3.92425601 -0.320389910 2.0408664745 -0.29459327
## 585 -0.34068756 -0.28188159 -0.27887059 1.732846779 -0.3088913590 -0.29459327
## 586 -0.34068756 -0.28188159 -0.27887059 0.652195890 -0.3861860246 -0.29459327
## 587 -0.34068756 1.07152073 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 588 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 589 -0.34068756 -0.28188159 -0.27887059 5.551146585 -0.3861860246 -0.29459327
## 590 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 591 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 592 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 593 -0.34068756 -0.28188159 -0.27887059 1.084456246 -0.3861860246 -0.29459327
## 594 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 595 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 596 -0.34068756 -0.28188159 -0.27887059 5.767276763 -0.3861860246 2.28888456
## 597 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 598 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 599 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 600 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 601 -0.34068756 2.17679929 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 602 -0.34068756 -0.28188159 0.36364558 -0.320389910 -0.0151716298 0.99714565
## 603 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 604 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 605 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 606 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 607 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 608 -0.34068756 0.30459275 -0.27887059 1.552738297 -0.3861860246 1.10479056
## 609 -0.05346363 -0.28188159 0.68490366 0.003805357 -0.3861860246 -0.29459327
## 610 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 611 0.84012194 0.55271650 -0.27887059 -0.320389910 0.7577750259 -0.29459327
## 612 0.77629440 -0.16909807 -0.14501306 -0.140281428 -0.3088913590 -0.02548099

```

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 613 | -0.34068756 | 1.22941766  | 0.60458914  | 0.868326068  | 0.1239587682  | -0.29459327 |
| ## 614 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 615 | -0.08537740 | -0.10142795 | 0.84553270  | -0.032216339 | -0.2625145597 | -0.29459327 |
| ## 616 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 617 | -0.05346363 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 618 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 619 | 3.87193013  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 620 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 621 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 622 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.9123643571  | -0.29459327 |
| ## 623 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.6031856948  | -0.29459327 |
| ## 624 | 0.42524293  | -0.28188159 | -0.06469854 | -0.320389910 | 0.3713016981  | 0.13598637  |
| ## 625 | 4.35063669  | 3.03395409  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 626 | 1.70179374  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 627 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 628 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 629 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.5925574142  | -0.29459327 |
| ## 630 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 631 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 632 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 633 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 634 | 0.32950162  | -0.28188159 | -0.27887059 | -0.320389910 | -0.0615484292 | -0.29459327 |
| ## 635 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 0.35127619  |
| ## 636 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 637 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 638 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 639 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 640 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 641 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 642 | 2.05284522  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 643 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 644 | 0.68055309  | 0.57527321  | -0.27887059 | -0.104259732 | -0.3861860246 | -0.29459327 |
| ## 645 | -0.34068756 | -0.28188159 | 5.18251683  | -0.320389910 | -0.3861860246 | 5.19529712  |
| ## 646 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 647 | 1.63796620  | 1.11663414  | 0.55104612  | -0.320389910 | 2.5200934011  | 3.04239893  |
| ## 648 | -0.34068756 | -0.28188159 | 1.00616174  | -0.320389910 | 2.6283059329  | -0.29459327 |
| ## 649 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 650 | -0.34068756 | -0.28188159 | -0.27887059 | 6.199537119  | -0.3861860246 | -0.29459327 |
| ## 651 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 652 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 653 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 654 | -0.34068756 | 0.66550003  | -0.27887059 | -0.320389910 | 0.2630891663  | -0.29459327 |
| ## 655 | 0.68055309  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 656 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 657 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 658 | -0.34068756 | -0.28188159 | -0.27887059 | 0.075848749  | 0.6804803604  | 1.53537020  |
| ## 659 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.7577750259  | 1.69683756  |
| ## 660 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 661 | -0.24494625 | -0.28188159 | 0.20301653  | 1.624781690  | 0.5722678286  | 1.26625792  |
| ## 662 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 663 | 0.39332916  | 0.23692263  | 3.49591189  | 0.508109105  | 0.3403838318  | 0.94332319  |
| ## 664 | -0.34068756 | 1.77077859  | -0.27887059 | -0.320389910 | -0.3861860246 | 4.60325012  |
| ## 665 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 666 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 667 | -0.34068756 | 0.03391228  | -0.27887059 | -0.320389910 | 0.2785480994  | 1.26625792  |
| ## 668 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 669 | 3.77618882  | -0.28188159 | 1.43450586  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 670 | 2.14858653  | -0.28188159 | -0.27887059 | -0.320389910 | 0.8196107584  | -0.29459327 |
| ## 671 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.7471467453  | -0.29459327 |
| ## 672 | -0.34068756 | -0.05631454 | -0.27887059 | 0.400044016  | 0.5722678286  | 0.24363128  |
| ## 673 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 7.7452127941  | -0.29459327 |
| ## 674 | -0.34068756 | 0.03391228  | -0.27887059 | -0.320389910 | 0.2785480994  | 0.45892110  |
| ## 675 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 676 | 1.38265604  | 4.59036676  | -0.27887059 | -0.320389910 | 0.4485963636  | -0.29459327 |
| ## 677 | 1.41456981  | 4.74826369  | -0.27887059 | -0.320389910 | 0.4640552967  | -0.29459327 |
| ## 678 | -0.34068756 | 0.10158240  | -0.27887059 | -0.320389910 | 0.4022195643  | 0.62038847  |
| ## 679 | 0.01036391  | -0.28188159 | 1.30064832  | 2.237150527  | 4.0350688464  | 0.94332319  |
| ## 680 | -0.34068756 | -0.28188159 | 1.67544942  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 681 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 682 | -0.34068756 | -0.28188159 | -0.27887059 | 3.930170252  | -0.3861860246 | -0.29459327 |
| ## 683 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0621230358  | -0.29459327 |
| ## 684 | -0.34068756 | 1.38731460  | -0.27887059 | -0.320389910 | 1.9171950096  | 3.68826839  |
| ## 685 | 3.87193013  | 0.71061344  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 686 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 687 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 688 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 689 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 690 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.7471467453  | -0.29459327 |
| ## 691 | 0.45715670  | -0.28188159 | 0.04238749  | 0.111870446  | -0.3861860246 | -0.29459327 |
| ## 692 | -0.34068756 | 1.74822189  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 693 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 694 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 695 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0002873033  | 1.05096810  |
| ## 696 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 697 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 2.07359474  |
| ## 698 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 699 | 0.80820817  | -0.28188159 | 1.67544942  | -0.320389910 | 0.1703355676  | 1.64301511  |
| ## 700 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 1.10479056  |
| ## 701 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 702 | 2.81877571  | 0.46248968  | 0.60458914  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 703 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 704 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 705 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 706 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 707 | -0.34068756 | 2.53770657  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 708 | -0.34068756 | -0.28188159 | 1.08647626  | -0.320389910 | 0.4022195643  | -0.29459327 |
| ## 709 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 710 | 0.01036391  | -0.28188159 | -0.27887059 | -0.320389910 | -0.0306305629 | 0.94332319  |
| ## 711 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 712 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 713 | 1.76562128  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 714 | -0.34068756 | 1.07152073  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 715 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 716 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 717 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 718 | -0.05346363 | -0.07887124 | -0.27887059 | 0.364022320  | 0.0621230358  | 1.80448247  |
| ## 719 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 720 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 721 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 2.93475402  |
| ## 722 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 723 | 0.87203571  | -0.28188159 | -0.27887059 | -0.320389910 | 0.2012534338  | -0.29459327 |
| ## 724 | -0.34068756 | -0.28188159 | -0.27887059 | 2.489302401  | 0.8196107584  | -0.29459327 |
| ## 725 | -0.34068756 | -0.28188159 | 1.00616174  | -0.320389910 | 2.6283059329  | -0.29459327 |
| ## 726 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 727 | 0.68055309  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 728 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.5104320961  | -0.29459327 |
| ## 729 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 1.10479056  |
| ## 730 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 3.5713008529  | -0.29459327 |
| ## 731 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 732 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 733 | -0.34068756 | 1.97378894  | -0.27887059 | -0.320389910 | 1.1597072869  | -0.29459327 |
| ## 734 | -0.34068756 | -0.28188159 | -0.27887059 | 1.228543031  | 0.2785480994  | 2.01977229  |
| ## 735 | 1.51031112  | -0.12398466 | 0.09593051  | 2.057042045  | 1.5461806148  | 0.45892110  |
| ## 736 | 1.54222489  | 1.04896402  | 0.49750311  | -0.320389910 | 0.0621230358  | 1.26625792  |
| ## 737 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.8862771434  | -0.29459327 |
| ## 738 | -0.34068756 | -0.28188159 | 1.05970476  | -0.320389910 | 0.3867606312  | 1.05096810  |
| ## 739 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 740 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 741 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 2.9684024614  | -0.29459327 |
| ## 742 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 743 | -0.34068756 | -0.28188159 | -0.27887059 | 3.353823112  | 0.0621230358  | 0.45892110  |
| ## 744 | 2.18050030  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 745 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.1084998351  | -0.29459327 |
| ## 746 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 747 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 748 | -0.34068756 | 2.89861386  | -0.27887059 | -0.320389910 | -0.3861860246 | 2.23506211  |
| ## 749 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 750 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 751 | 0.01036391  | -0.23676818 | 0.28333105  | 1.192521334  | 0.7732339591  | 0.94332319  |
| ## 752 | -0.34068756 | 2.67304680  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 753 | 1.22308719  | -0.28188159 | 1.03293325  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 754 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 755 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 756 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 757 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 758 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 759 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.5461806148  | -0.29459327 |
| ## 760 | -0.34068756 | -0.28188159 | -0.27887059 | 1.408651512  | -0.3861860246 | -0.29459327 |
| ## 761 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 762 | 1.70179374  | 0.43993298  | 0.57781763  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 763 | -0.34068756 | -0.28188159 | 8.07383959  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 764 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 765 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 766 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 767 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 768 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 769 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 770 | 0.58481178  | 0.37226286  | 0.49750311  | -0.320389910 | -0.3861860246 | 2.82710911  |
| ## 771 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 772 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.7268571597  | -0.29459327 |
| ## 773 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 774 | -0.34068756 | 2.08657247  | -0.27887059 | -0.320389910 | 1.2370019525  | 2.50417438  |



```

## 775 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3094659656 -0.29459327
## 776 0.48907047 -0.10142795 2.50536614 1.552738297 2.0254075414 1.10479056
## 777 -0.34068756 -0.28188159 -0.27887059 -0.320389910 16.7886886666 -0.29459327
## 778 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 779 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 780 0.20184653 -0.28188159 -0.27887059 0.904347764 -0.1233841616 -0.29459327
## 781 -0.34068756 -0.28188159 -0.27887059 0.832304372 1.0978715545 -0.29459327
## 782 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 783 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 784 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 785 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 786 3.74427505 -0.28188159 -0.27887059 2.453280705 0.4022195643 -0.29459327
## 787 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 788 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 789 -0.34068756 0.75572685 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 790 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 791 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 792 1.28691473 -0.28188159 -0.27887059 -0.320389910 0.0002873033 -0.29459327
## 793 0.99969079 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 794 -0.34068756 -0.28188159 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 795 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 796 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 797 -0.34068756 -0.28188159 -0.27887059 3.822105163 -0.3861860246 -0.29459327
## 798 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 799 3.23365472 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 800 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 801 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 802 18.42460944 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 803 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 804 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 805 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 806 0.26567407 -0.28188159 -0.27887059 0.003805357 0.2167123669 -0.29459327
## 807 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 808 -0.34068756 0.07902569 0.14947352 -0.320389910 -0.3861860246 -0.29459327
## 809 0.68055309 -0.28188159 1.46127736 -0.320389910 -0.3861860246 -0.29459327
## 810 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 811 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 812 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 813 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 814 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 815 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 816 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 817 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 818 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 819 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 820 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 821 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 822 2.43581046 -0.28188159 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 823 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 824 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 825 -0.34068756 0.86851038 1.08647626 -0.320389910 1.2060840863 -0.29459327
## 826 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 827 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 828 -0.34068756 3.28207785 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 829 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.7471467453  | -0.29459327 |
| ## 830 | -0.34068756 | -0.28188159 | 1.94316449  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 831 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.4485963636  | -0.29459327 |
| ## 832 | -0.08537740 | -0.10142795 | 0.84553270  | -0.032216339 | -0.2625145597 | -0.29459327 |
| ## 833 | -0.02154986 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 834 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 835 | 0.80820817  | 2.17679929  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 836 | 0.52098424  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 837 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 838 | -0.11729117 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 0.45892110  |
| ## 839 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 840 | 1.89327637  | 0.50760309  | 0.65813215  | -0.320389910 | -0.3861860246 | 1.58919265  |
| ## 841 | -0.34068756 | 1.77077859  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 842 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 843 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 844 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 845 | 0.23376030  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 846 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 847 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 848 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 849 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 850 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 851 | 3.74427505  | -0.28188159 | 1.43450586  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 852 | -0.02154986 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 853 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 854 | -0.34068756 | -0.28188159 | 0.49750311  | -0.320389910 | -0.3861860246 | 1.26625792  |
| ## 855 | -0.34068756 | -0.28188159 | -0.27887059 | 2.057042045  | -0.3861860246 | 3.25768875  |
| ## 856 | 0.87203571  | 0.57527321  | 0.73844667  | -0.320389910 | -0.3861860246 | 1.75066002  |
| ## 857 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 858 | 1.38265604  | 4.63548017  | -0.27887059 | -0.320389910 | 0.4485963636  | -0.29459327 |
| ## 859 | 0.55289801  | -0.07887124 | -0.03792703 | 1.048434549  | -0.0924662954 | -0.29459327 |
| ## 860 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 861 | 2.18050030  | 0.82339697  | -0.27887059 | 2.885541060  | 0.0621230358  | 1.26625792  |
| ## 862 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 863 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 864 | -0.34068756 | -0.28188159 | 12.25019468 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 865 | 2.08475899  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 866 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 867 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 868 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 5.3027013619  | -0.29459327 |
| ## 869 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 870 | -0.34068756 | 0.28203604  | -0.27887059 | -0.320389910 | -0.3861860246 | 2.39652947  |
| ## 871 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 4.17267048  |
| ## 872 | -0.34068756 | -0.28188159 | -0.27887059 | 0.075848749  | -0.0306305629 | -0.29459327 |
| ## 873 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 874 | -0.34068756 | -0.28188159 | -0.27887059 | 0.147892142  | -0.3861860246 | 0.40509865  |
| ## 875 | 0.16993276  | -0.10142795 | -0.27887059 | 0.544130801  | -0.2625145597 | -0.29459327 |
| ## 876 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0157462364  | -0.29459327 |
| ## 877 | -0.34068756 | -0.28188159 | -0.06469854 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 878 | 0.99969079  | 0.66550003  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 879 | -0.34068756 | -0.28188159 | -0.27887059 | 0.436065712  | -0.3861860246 | -0.29459327 |
| ## 880 | 1.63796620  | -0.28188159 | 1.38096284  | 1.912955260  | 1.0514947551  | -0.29459327 |
| ## 881 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 882 | -0.34068756 | 0.10158240  | -0.27887059 | -0.320389910 | 0.4022195643  | 0.62038847  |

```

## 883 3.77618882 -0.28188159 1.43450586 -0.320389910 -0.3861860246 -0.29459327
## 884 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 885 -0.08537740 -0.10142795 0.87230421 -0.032216339 -0.2625145597 -0.29459327
## 886 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.6321696098 -0.29459327
## 887 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 888 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 889 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 890 -0.34068756 0.07902569 -0.27887059 -0.320389910 0.3713016981 0.56656601
## 891 0.84012194 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 892 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 893 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 894 -0.34068756 -0.28188159 0.95261873 -0.320389910 -0.3861860246 -0.29459327
## 895 1.57413866 1.07152073 -0.27887059 1.840911868 1.8553592771 0.35127619
## 896 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 897 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 898 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 899 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 900 1.03160456 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 901 2.14858653 0.82339697 -0.27887059 2.489302401 -0.0924662954 1.26625792
## 902 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 903 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 904 0.36141539 -0.03375783 -0.27887059 0.075848749 -0.0460894961 -0.29459327
## 905 1.22308719 -0.28188159 1.03293325 -0.320389910 -0.3861860246 -0.29459327
## 906 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 907 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 908 -0.34068756 -0.28188159 1.16679079 -0.320389910 0.0312051695 -0.29459327
## 909 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 910 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 911 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 912 3.01025833 0.89106708 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 913 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 914 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 915 1.38265604 3.39486137 -0.27887059 -0.320389910 -0.3861860246 2.61181929
## 916 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 917 -0.34068756 1.38731460 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 918 0.01036391 -0.28188159 -0.09147004 1.768868475 0.5722678286 1.53537020
## 919 1.03160456 0.68805674 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 920 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 921 -0.34068756 -0.28188159 1.38096284 -0.320389910 -0.3861860246 -0.29459327
## 922 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 923 -0.34068756 5.49263497 3.14788230 4.290387215 1.5925574142 6.59468095
## 924 -0.34068756 -0.28188159 6.09274807 8.252773807 3.2930400569 -0.29459327
## 925 0.36141539 2.71816021 -0.27887059 -0.320389910 -0.0460894961 2.07359474
## 926 -0.34068756 -0.28188159 1.51482038 -0.320389910 0.6495624941 -0.29459327
## 927 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2167123669 -0.29459327
## 928 0.45715670 -0.28188159 1.05970476 -0.320389910 -0.3861860246 -0.29459327
## 929 1.28691473 -0.28188159 -0.27887059 -0.320389910 0.0002873033 -0.29459327
## 930 2.62729309 -0.28188159 2.21087956 -0.320389910 -0.3861860246 -0.29459327
## 931 2.18050030 0.82339697 -0.27887059 2.885541060 0.0621230358 1.26625792
## 932 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 933 1.19117342 -0.28188159 -0.27887059 0.544130801 -0.3861860246 2.28888456
## 934 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 935 -0.34068756 0.48504639 -0.27887059 -0.320389910 0.1394177013 -0.29459327
## 936 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

|        |             |             |             |              |               |             |
|--------|-------------|-------------|-------------|--------------|---------------|-------------|
| ## 937 | 0.64863932  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 938 | -0.34068756 | -0.28188159 | 0.68490366  | -0.320389910 | -0.2006788272 | -0.29459327 |
| ## 939 | -0.18111871 | -0.28188159 | 0.63136065  | -0.320389910 | -0.3861860246 | 0.29745374  |
| ## 940 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 941 | -0.34068756 | -0.28188159 | -0.27887059 | 4.434474000  | 1.9944896752  | -0.29459327 |
| ## 942 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 943 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 944 | -0.34068756 | 0.48504639  | -0.27887059 | -0.320389910 | 0.1394177013  | -0.29459327 |
| ## 945 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 946 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 947 | -0.05346363 | 0.14669581  | -0.27887059 | -0.320389910 | -0.2470556266 | 0.18980883  |
| ## 948 | 1.09543211  | 0.73317015  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 949 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 950 | -0.34068756 | 2.37980964  | 1.30064832  | 1.804890171  | 1.4379680830  | -0.29459327 |
| ## 951 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 952 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.8399003440  | -0.29459327 |
| ## 953 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 954 | -0.34068756 | -0.28188159 | 1.14001928  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 955 | -0.05346363 | -0.07887124 | -0.27887059 | 0.724239283  | -0.2470556266 | 2.28888456  |
| ## 956 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 957 | 9.04196094  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 958 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.7577750259  | -0.29459327 |
| ## 959 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 960 | 0.13801899  | -0.28188159 | -0.27887059 | 0.039827053  | 0.7732339591  | 1.58919265  |
| ## 961 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 962 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 963 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.0621230358  | -0.29459327 |
| ## 964 | -0.34068756 | 0.86851038  | 1.08647626  | -0.320389910 | 1.2060840863  | -0.29459327 |
| ## 965 | 5.65910128  | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 966 | 0.29758784  | -0.28188159 | 0.44396010  | 0.652195890  | 1.1133304876  | 1.91212738  |
| ## 967 | -0.34068756 | 2.78583033  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 968 | -0.34068756 | 0.07902569  | 0.14947352  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 969 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 970 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 0.3558427649  | -0.29459327 |
| ## 971 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 972 | 1.66987997  | -0.28188159 | 3.95102751  | 0.796282675  | 0.5877267617  | -0.29459327 |
| ## 973 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | 2.82710911  |
| ## 974 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 975 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 976 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 977 | -0.34068756 | -0.28188159 | 2.61245216  | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 978 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | 1.3452144843  | -0.29459327 |
| ## 979 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 980 | -0.34068756 | 1.18430425  | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 981 | 0.48907047  | -0.28188159 | 0.06915900  | 1.084456246  | -0.1852198941 | 0.40509865  |
| ## 982 | -0.34068756 | 2.04145906  | 2.47859463  | -0.320389910 | 1.2060840863  | -0.29459327 |
| ## 983 | -0.18111871 | -0.28188159 | -0.27887059 | 1.408651512  | -0.3861860246 | -0.29459327 |
| ## 984 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 985 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 986 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 987 | -0.05346363 | 0.14669581  | -0.27887059 | -0.320389910 | -0.2470556266 | 0.18980883  |
| ## 988 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.3861860246 | -0.29459327 |
| ## 989 | -0.34068756 | -0.28188159 | -0.27887059 | 4.290387215  | -0.3861860246 | -0.29459327 |
| ## 990 | -0.34068756 | -0.28188159 | -0.27887059 | -0.320389910 | -0.0460894961 | 2.12741720  |

```

## 991 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 992 -0.34068756 -0.28188159 3.17465381 -0.320389910 0.2785480994 -0.29459327
## 993 0.20184653 -0.28188159 -0.27887059 2.381237312 -0.0306305629 1.53537020
## 994 -0.34068756 -0.28188159 1.22033380 -0.320389910 -0.3861860246 -0.29459327
## 995 0.20184653 0.10158240 -0.27887059 -0.320389910 1.5307216817 0.62038847
## 996 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 997 -0.34068756 -0.28188159 0.71167517 1.012412853 2.5200934011 1.69683756
## 998 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 999 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1000 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1001 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 2.01977229
## 1002 -0.34068756 -0.28188159 0.92584722 -0.320389910 2.3964219362 -0.29459327
## 1003 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6080163473 -0.29459327
## 1004 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 1005 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1006 -0.34068756 -0.28188159 -0.27887059 3.029627845 -0.3861860246 -0.29459327
## 1007 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1008 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1009 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.8505286246 -0.29459327
## 1010 1.66987997 -0.28188159 3.95102751 0.796282675 0.5877267617 -0.29459327
## 1011 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1012 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1013 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1014 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1015 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1016 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1017 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1018 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5877267617 -0.29459327
## 1019 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1020 -0.34068756 0.01135558 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 1021 -0.02154986 -0.28188159 -0.27887059 1.192521334 0.4176784974 0.83567828
## 1022 0.39332916 -0.28188159 0.97939024 0.508109105 -0.0306305629 0.94332319
## 1023 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1024 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1025 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1026 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7732339591 -0.29459327
## 1027 -0.34068756 -0.28188159 0.06915900 -0.320389910 -0.1852198941 -0.29459327
## 1028 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1029 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1030 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1031 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1032 -0.34068756 2.67304680 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1033 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1034 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1035 -0.34068756 -0.28188159 -0.27887059 1.732846779 -0.3088913590 -0.29459327
## 1036 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1037 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1038 -0.34068756 -0.28188159 -0.27887059 5.551146585 -0.3861860246 -0.29459327
## 1039 0.16993276 -0.28188159 0.14947352 0.255957231 -0.2625145597 0.56656601
## 1040 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1041 1.28691473 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.45035193
## 1042 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1043 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1044 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1045 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1046 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1047 -0.34068756 -0.28188159 0.04238749 -0.320389910 -0.3861860246 -0.29459327
## 1048 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1049 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1050 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1051 -0.34068756 -0.28188159 2.58568066 -0.320389910 -0.3861860246 -0.29459327
## 1052 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1053 2.40389669 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1054 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1055 -0.34068756 2.15424258 -0.27887059 -0.320389910 0.4485963636 2.61181929
## 1056 0.26567407 0.14669581 -0.27887059 3.101671238 0.2012534338 0.72803337
## 1057 0.74438063 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1058 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1059 1.44648358 4.79337710 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1060 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1061 -0.08537740 -0.10142795 0.84553270 -0.032216339 -0.2625145597 -0.29459327
## 1062 -0.34068756 -0.28188159 0.57781763 0.832304372 0.6031856948 -0.29459327
## 1063 0.07419145 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1064 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1065 -0.34068756 -0.28188159 -0.27887059 2.633389186 -0.3861860246 -0.29459327
## 1066 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1067 -0.34068756 0.07902569 -0.27887059 2.021020349 -0.1388430947 0.56656601
## 1068 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1069 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 1070 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1071 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1072 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1073 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1074 -0.34068756 -0.05631454 -0.01115552 -0.320389910 -0.3861860246 0.24363128
## 1075 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1076 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1077 -0.34068756 -0.28188159 0.17624503 0.291978927 -0.1233841616 -0.29459327
## 1078 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1079 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6495624941 -0.29459327
## 1080 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1081 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6495624941 -0.29459327
## 1082 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1083 1.47839735 4.86104722 -0.27887059 -0.320389910 0.4949731630 -0.29459327
## 1084 1.41456981 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.66564175
## 1085 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.6437648660 -0.29459327
## 1086 1.28691473 -0.28188159 1.08647626 0.291978927 -0.1233841616 0.62038847
## 1087 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1088 -0.24494625 -0.28188159 0.65813215 1.768868475 0.6341035610 1.37390283
## 1089 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1090 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1091 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1092 -0.34068756 0.03391228 -0.27887059 1.732846779 -0.1697609610 0.45892110
## 1093 -0.18111871 -0.28188159 -0.27887059 1.408651512 -0.3861860246 -0.29459327
## 1094 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1095 0.29758784 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 1096 1.47839735 -0.28188159 1.24710531 3.822105163 1.6853110129 -0.29459327
## 1097 -0.34068756 1.59032495 -0.27887059 0.400044016 1.2215430194 -0.29459327
## 1098 -0.34068756 -0.28188159 -0.27887059 3.317801415 0.4795142299 0.29745374

```

```

## 1099 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1100 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 1101 -0.34068756 1.34220119 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1102 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5258910292 1.80448247
## 1103 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1104 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1105 -0.05346363 -0.07887124 -0.27887059 2.525324097 -0.3861860246 -0.07930345
## 1106 -0.34068756 1.02640732 -0.27887059 -0.320389910 1.4070502168 -0.29459327
## 1107 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1108 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1109 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1110 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1111 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1112 -0.34068756 -0.28188159 7.85966753 -0.320389910 -0.3861860246 -0.29459327
## 1113 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1114 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1115 -0.34068756 -0.28188159 8.63604124 11.674834954 -0.3861860246 -0.29459327
## 1116 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1117 -0.34068756 -0.28188159 10.34941768 -0.320389910 0.6341035610 -0.29459327
## 1118 -0.34068756 0.10158240 0.17624503 -0.320389910 -0.3861860246 -0.29459327
## 1119 1.82944883 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1120 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9123643571 -0.29459327
## 1121 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 1122 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1123 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5722678286 1.37390283
## 1124 -0.34068756 -0.28188159 -0.27887059 0.652195890 -0.3861860246 -0.29459327
## 1125 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1126 -0.34068756 -0.28188159 -0.27887059 2.129085438 1.1906251532 -0.29459327
## 1127 -0.34068756 -0.28188159 -0.27887059 0.508109105 -0.3861860246 -0.29459327
## 1128 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1129 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1130 0.48907047 -0.28188159 -0.27887059 0.616174194 -0.3861860246 -0.29459327
## 1131 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1132 -0.34068756 -0.28188159 -0.27887059 3.065649541 -0.3861860246 -0.29459327
## 1133 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1134 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1135 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7886928922 -0.29459327
## 1136 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1137 1.47839735 -0.28188159 1.24710531 3.822105163 1.3915912837 -0.29459327
## 1138 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1139 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 1140 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1141 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1142 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1143 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1144 -0.34068756 2.24446940 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1145 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1146 0.45715670 -0.28188159 -0.27887059 -0.320389910 0.4022195643 -0.29459327
## 1147 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1148 -0.34068756 -0.28188159 4.48645765 -0.320389910 -0.3861860246 -0.29459327
## 1149 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1150 -0.34068756 -0.28188159 2.61245216 -0.320389910 -0.3861860246 -0.29459327
## 1151 1.22308719 -0.28188159 3.25496833 0.255957231 7.5287877305 -0.29459327
## 1152 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1153 1.15925965 -0.28188159 -0.27887059 0.508109105 -0.0306305629 -0.29459327
## 1154 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1155 -0.34068756 -0.28188159 1.16679079 -0.320389910 1.2833787519 -0.29459327
## 1156 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 1157 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1158 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1159 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6341035610 -0.29459327
## 1160 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1161 0.52098424 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1162 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1163 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1164 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1165 -0.34068756 -0.28188159 -0.27887059 -0.320389910 5.4418317599 -0.29459327
## 1166 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1167 -0.34068756 0.07902569 -0.27887059 2.021020349 -0.1388430947 0.56656601
## 1168 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.2466632575 -0.29459327
## 1169 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1170 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1171 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1172 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1173 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1174 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1175 -0.34068756 0.03391228 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 1176 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1177 -0.34068756 -0.28188159 -0.27887059 7.928578540 -0.3861860246 -0.29459327
## 1178 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1179 -0.34068756 -0.28188159 -0.27887059 0.544130801 -0.3861860246 -0.29459327
## 1180 -0.34068756 0.75572685 4.70062971 -0.320389910 1.0514947551 2.18123965
## 1181 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4022195643 5.19529712
## 1182 11.05252848 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1183 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1184 1.15925965 0.23692263 0.65813215 -0.320389910 -0.2161377603 0.29745374
## 1185 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1186 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1187 -0.34068756 3.39486137 -0.27887059 -0.320389910 2.1336200732 8.47846687
## 1188 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1189 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.7162288791 -0.29459327
## 1190 0.07419145 -0.28188159 0.44396010 -0.320389910 -0.3861860246 -0.29459327
## 1191 -0.34068756 1.92867553 2.34473709 0.832304372 2.3809630031 -0.29459327
## 1192 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1193 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1194 -0.34068756 -0.28188159 1.46127736 0.147892142 -0.3861860246 -0.29459327
## 1195 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1196 0.10610522 0.03391228 -0.27887059 -0.320389910 4.2514939100 0.45892110
## 1197 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1198 0.71246686 1.22941766 -0.27887059 0.868326068 -0.3861860246 0.56656601
## 1199 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1200 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1201 -0.34068756 -0.28188159 0.36364558 -0.320389910 0.3713016981 -0.29459327
## 1202 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1203 -0.34068756 -0.28188159 3.36205436 -0.320389910 -0.3861860246 3.36533366
## 1204 1.22308719 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1205 1.03160456 -0.10142795 2.71953819 1.228543031 1.8862771434 1.10479056
## 1206 0.20184653 -0.16909807 -0.27887059 -0.320389910 -0.3861860246 3.20386630

```



```

## 1207 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1208 -0.05346363 -0.28188159 0.47073160 -0.320389910 -0.3861860246 -0.29459327
## 1209 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1210 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1211 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1212 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1213 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1214 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1215 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1216 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1217 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1218 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1219 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 3.15004384
## 1220 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1221 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1222 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1223 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1224 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 1225 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1226 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.2002864582 -0.29459327
## 1227 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1228 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1229 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1230 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1231 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6080163473 -0.29459327
## 1232 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1233 -0.34068756 -0.28188159 -0.27887059 0.796282675 -0.3861860246 1.37390283
## 1234 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1548766344 -0.29459327
## 1235 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1236 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1237 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7886928922 -0.29459327
## 1238 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 1239 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1240 -0.34068756 0.03391228 -0.27887059 -0.320389910 0.2785480994 0.45892110
## 1241 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1242 1.57413866 1.07152073 -0.27887059 1.840911868 1.8553592771 0.35127619
## 1243 -0.34068756 -0.28188159 0.63136065 -0.320389910 -0.3861860246 1.53537020
## 1244 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1245 -0.34068756 -0.28188159 -0.27887059 3.786083467 -0.3861860246 -0.29459327
## 1246 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1247 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1248 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1249 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1250 3.04217210 2.10912917 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1251 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1252 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1253 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1254 -0.34068756 -0.28188159 1.08647626 -0.320389910 0.4022195643 -0.29459327
## 1255 0.10610522 -0.21421148 -0.09147004 1.660803386 0.6341035610 1.26625792
## 1256 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1257 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7423160928 -0.29459327
## 1258 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1259 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1260 0.48907047 1.50009813 0.41718859 -0.320389910 0.8350696915 5.35676449

```

```

## 1261 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1262 -0.34068756 -0.28188159 -0.27887059 5.479103193 -0.3861860246 -0.29459327
## 1263 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1264 18.42460944 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1265 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6389342135 -0.29459327
## 1266 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1267 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 1268 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 1269 -0.34068756 1.38731460 -0.27887059 2.345215616 -0.3861860246 -0.29459327
## 1270 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1271 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 1272 -0.34068756 0.03391228 -0.27887059 -0.320389910 -0.3861860246 0.45892110
## 1273 -0.34068756 2.83094374 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1274 -0.34068756 2.13168588 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 1275 0.01036391 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1276 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.66564175
## 1277 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1278 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 1279 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.9684024614 -0.29459327
## 1280 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1281 0.74438063 -0.16909807 -0.14501306 -0.140281428 -0.3088913590 -0.02548099
## 1282 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1283 0.84012194 -0.28188159 0.71167517 2.345215616 1.3297555512 1.69683756
## 1284 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1285 -0.34068756 -0.28188159 -0.27887059 -0.068238036 -0.3861860246 -0.29459327
## 1286 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1287 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1288 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1289 1.66987997 0.41737627 0.55104612 -0.320389910 -0.3861860246 -0.29459327
## 1290 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1291 1.22308719 -0.28188159 3.25496833 0.255957231 7.5287877305 -0.29459327
## 1292 1.73370751 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1293 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1294 -0.34068756 2.94372727 -0.27887059 -0.320389910 -0.3861860246 2.23506211
## 1295 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1296 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1297 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1298 1.25500096 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1299 -0.14920494 -0.28188159 -0.27887059 1.696825082 -0.3861860246 -0.29459327
## 1300 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1301 -0.34068756 0.21436592 0.31010256 2.921562756 0.6650214272 2.12741720
## 1302 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1303 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1304 2.85068948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1305 1.63796620 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1306 3.48896489 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1307 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1308 -0.34068756 0.19180922 -0.27887059 -0.320389910 -0.0615484292 -0.29459327
## 1309 1.06351834 -0.28188159 0.89907572 -0.320389910 -0.3861860246 -0.29459327
## 1310 -0.05346363 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1311 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1312 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1313 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1314 0.16993276 -0.28188159 -0.06469854 -0.032216339 -0.3861860246 0.13598637

```

```

## 1315 -0.34068756 0.07902569 -0.27887059 -0.320389910 0.3713016981 0.56656601
## 1316 -0.34068756 1.74822189 9.43918645 -0.320389910 2.4118808693 -0.29459327
## 1317 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1318 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1319 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1320 0.23376030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1321 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1322 -0.34068756 2.49259316 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1323 2.27624161 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1324 -0.08537740 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.13598637
## 1325 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.61181929
## 1326 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1327 -0.34068756 -0.28188159 -0.27887059 4.002213645 7.0495608039 1.85830493
## 1328 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1329 -0.34068756 -0.28188159 -0.27887059 -0.068238036 -0.3861860246 -0.29459327
## 1330 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1331 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1332 0.36141539 0.21436592 -0.27887059 -0.320389910 -0.0460894961 -0.29459327
## 1333 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1334 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1335 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1336 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1337 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1338 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1339 -0.34068756 1.07152073 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1340 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1341 0.45715670 -0.10142795 0.60458914 -0.320389910 -0.1388430947 0.13598637
## 1342 0.48907047 -0.28188159 1.11324777 -0.320389910 -0.3861860246 -0.29459327
## 1343 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1344 0.48907047 -0.28188159 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 1345 -0.34068756 -0.28188159 0.28333105 -0.320389910 -0.3861860246 -0.29459327
## 1346 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1347 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1348 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9587411564 -0.29459327
## 1349 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 1350 0.80820817 -0.14654136 -0.11824155 -0.104259732 -0.2006788272 0.02834146
## 1351 1.92519014 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1352 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1353 -0.34068756 -0.28188159 3.46914039 0.940369460 0.1548766344 -0.29459327
## 1354 1.57413866 -0.28188159 -0.27887059 1.840911868 -0.3861860246 -0.29459327
## 1355 -0.34068756 -0.28188159 0.65813215 -0.320389910 -0.3861860246 -0.29459327
## 1356 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1357 -0.34068756 -0.28188159 0.12270201 0.219935535 -0.3861860246 0.51274356
## 1358 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7268571597 -0.29459327
## 1359 0.99969079 0.66550003 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1360 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1361 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0514947551 -0.29459327
## 1362 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1363 -0.34068756 -0.28188159 -0.27887059 3.894148556 0.0621230358 0.45892110
## 1364 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1365 0.20184653 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1366 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1367 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1368 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1369 3.68044751 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1370 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1371 1.57413866 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1372 -0.34068756 -0.28188159 -0.27887059 1.084456246 -0.3861860246 -0.29459327
## 1373 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1374 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1375 -0.18111871 -0.28188159 -0.14501306 1.372629816 -0.3861860246 -0.29459327
## 1376 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1377 -0.34068756 -0.28188159 1.19356229 -0.320389910 -0.2470556266 -0.29459327
## 1378 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1379 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1380 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1381 0.68055309 -0.28188159 0.14947352 -0.320389910 0.6186446279 -0.29459327
## 1382 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1383 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1384 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1385 -0.34068756 -0.28188159 -0.27887059 0.544130801 1.6543931466 3.58062348
## 1386 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 1387 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1388 -0.34068756 -0.28188159 0.28333105 -0.320389910 -0.0615484292 -0.29459327
## 1389 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1390 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 3.15004384
## 1391 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1392 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1393 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1394 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1395 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1396 0.13801899 -0.28188159 -0.09147004 -0.068238036 -0.3861860246 -0.29459327
## 1397 -0.34068756 -0.28188159 1.24710531 -0.320389910 -0.3861860246 -0.29459327
## 1398 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1399 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1400 -0.34068756 -0.28188159 -0.27887059 0.868326068 -0.3861860246 -0.29459327
## 1401 -0.24494625 -0.28188159 -0.27887059 1.120477942 -0.3861860246 -0.29459327
## 1402 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6804803604 -0.29459327
## 1403 -0.34068756 1.52265483 -0.27887059 -0.320389910 0.8505286246 -0.29459327
## 1404 -0.34068756 1.27453107 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1405 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1406 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 1407 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1408 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.72803337
## 1409 -0.34068756 2.71816021 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1410 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1411 1.19117342 -0.28188159 -0.27887059 1.408651512 -0.3861860246 2.28888456
## 1412 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1413 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.9722661383 -0.29459327
## 1414 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1415 -0.34068756 -0.28188159 -0.27887059 2.381237312 5.4109138937 -0.29459327
## 1416 0.36141539 0.71061344 0.89907572 0.472087409 4.0659867126 -0.29459327
## 1417 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1418 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1419 -0.34068756 0.71061344 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1420 -0.34068756 16.11684317 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1421 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1422 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1423 -0.18111871 -0.28188159 -0.14501306 0.039827053 -0.3861860246 -0.29459327
## 1424 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1425 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1426 -0.34068756 0.03391228 -0.27887059 -0.320389910 -0.3861860246 0.45892110
## 1427 1.41456981 4.68059358 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 1428 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1429 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.2315966934 -0.02548099
## 1430 0.01036391 -0.23676818 0.28333105 1.192521334 0.7732339591 0.94332319
## 1431 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1432 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 1433 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1434 0.90394948 0.59782991 0.76521818 -0.320389910 -0.3861860246 1.80448247
## 1435 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1436 0.61672555 -0.28188159 -0.27887059 -0.320389910 0.0775819689 1.32008038
## 1437 0.48907047 -0.10142795 2.55890915 1.588759994 2.0717843407 1.10479056
## 1438 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1439 -0.34068756 -0.28188159 -0.27887059 7.928578540 -0.3861860246 -0.29459327
## 1440 3.48896489 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1441 -0.34068756 -0.28188159 0.84553270 -0.320389910 -0.3861860246 -0.29459327
## 1442 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1443 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1444 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1445 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1446 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1447 -0.34068756 5.15428439 0.63136065 -0.320389910 2.2727504712 10.79283242
## 1448 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1449 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1450 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1451 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1452 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 1453 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 1454 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1455 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1456 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1457 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1458 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.3088913590 -0.29459327
## 1459 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1460 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1461 -0.34068756 0.34970616 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1462 -0.08537740 -0.10142795 0.84553270 -0.032216339 -0.2625145597 -0.29459327
## 1463 -0.34068756 0.82339697 -0.27887059 -0.320389910 1.1287894207 -0.29459327
## 1464 -0.34068756 -0.28188159 1.11324777 -0.320389910 -0.1233841616 0.62038847
## 1465 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3558427649 -0.29459327
## 1466 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 1467 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1468 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1469 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1470 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1471 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 1472 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1473 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1474 -0.34068756 2.06401576 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1475 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1476 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1477 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1478 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1479 -0.34068756 -0.28188159 6.09274807 8.252773807 3.2930400569 -0.29459327
## 1480 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1481 0.36141539 2.71816021 -0.27887059 -0.320389910 -0.0460894961 2.07359474
## 1482 1.44648358 0.98129391 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1483 -0.34068756 9.95886262 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1484 -0.34068756 2.49259316 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1485 0.80820817 -0.14654136 -0.11824155 -0.104259732 -0.2006788272 0.02834146
## 1486 0.16993276 -0.28188159 -0.14501306 0.940369460 -0.1388430947 0.99714565
## 1487 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1488 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1489 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1490 -0.05346363 0.14669581 -0.27887059 -0.320389910 -0.2470556266 0.18980883
## 1491 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1492 -0.34068756 4.72570699 5.66440396 -0.320389910 -0.3861860246 -0.29459327
## 1493 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1494 1.47839735 4.86104722 -0.27887059 -0.320389910 0.4949731630 -0.29459327
## 1495 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1496 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1497 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1498 -0.34068756 -0.05631454 -0.01115552 -0.320389910 -0.3861860246 0.24363128
## 1499 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1500 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.5770984811 -0.29459327
## 1501 3.23365472 -0.28188159 -0.27887059 -0.320389910 1.3452144843 -0.29459327
## 1502 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1503 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1504 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1505 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1506 2.24432784 -0.28188159 7.69903849 1.624781690 0.8659875577 1.15861301
## 1507 -0.34068756 -0.28188159 0.97939024 -0.320389910 2.5200934011 -0.29459327
## 1508 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1906251532 -0.29459327
## 1509 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6804803604 -0.29459327
## 1510 1.06351834 0.71061344 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1511 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1512 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.6650214272 7.02526059
## 1513 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1514 1.76562128 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1515 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1516 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1517 0.84012194 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1518 -0.34068756 -0.28188159 0.84553270 -0.320389910 -0.3861860246 -0.29459327
## 1519 -0.34068756 0.57527321 -0.27887059 -0.320389910 1.3761323506 -0.29459327
## 1520 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1521 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.37390283
## 1522 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1523 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1524 -0.34068756 -0.28188159 -0.27887059 2.381237312 -0.3861860246 -0.29459327
## 1525 2.56346554 -0.28188159 0.52427462 -0.320389910 -0.3861860246 -0.29459327
## 1526 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1527 1.51031112 -0.28188159 1.27387681 1.768868475 0.8041518253 -0.29459327
## 1528 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0514947551 -0.29459327
## 1529 1.92519014 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1530 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4640552967 -0.29459327

```

```

## 1531 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1532 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1533 0.93586325 -0.28188159 -0.27887059 -0.320389910 0.8659875577 -0.29459327
## 1534 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1535 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1536 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 1537 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1538 -0.34068756 -0.28188159 -0.14501306 -0.320389910 0.1548766344 -0.29459327
## 1539 -0.34068756 4.95127404 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1540 -0.34068756 -0.28188159 3.06756778 -0.320389910 -0.3861860246 -0.29459327
## 1541 -0.34068756 -0.28188159 1.08647626 -0.320389910 -0.3861860246 -0.29459327
## 1542 -0.34068756 0.21436592 0.31010256 2.921562756 0.6650214272 2.12741720
## 1543 -0.34068756 3.03395409 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1544 -0.05346363 -0.28188159 -0.03792703 -0.320389910 -0.3861860246 0.18980883
## 1545 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1546 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1547 0.68055309 -0.28188159 1.46127736 -0.320389910 -0.3861860246 -0.29459327
## 1548 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1549 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1550 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1551 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1552 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1553 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1554 -0.34068756 3.91366560 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1555 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0002873033 1.05096810
## 1556 -0.34068756 1.38731460 -0.27887059 -0.320389910 -0.3861860246 3.68826839
## 1557 -0.34068756 -0.28188159 -0.27887059 1.408651512 -0.3861860246 2.28888456
## 1558 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1559 -0.34068756 1.63543836 -0.27887059 -0.320389910 -0.3861860246 1.96594984
## 1560 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1561 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1562 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4225091499 -0.29459327
## 1563 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1564 -0.34068756 2.78583033 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1565 3.23365472 -0.28188159 5.71794697 -0.320389910 -0.3861860246 5.73352167
## 1566 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4843448824 -0.29459327
## 1567 2.59537932 1.09407743 2.18410805 0.760260979 0.0775819689 -0.29459327
## 1568 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1569 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.23506211
## 1570 -0.34068756 -0.28188159 -0.27887059 4.542539089 -0.3861860246 -0.29459327
## 1571 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1572 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1573 0.07419145 -0.23676818 2.69276668 0.508109105 0.0621230358 -0.02548099
## 1574 -0.34068756 0.82339697 2.37150860 -0.320389910 -0.0151716298 -0.29459327
## 1575 2.49963800 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1576 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1577 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1578 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1579 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1580 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1581 -0.18111871 -0.28188159 -0.27887059 1.552738297 -0.3861860246 -0.29459327
## 1582 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1583 -0.34068756 1.74822189 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1584 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1585 5.65910128 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1586 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4998038155 -0.29459327
## 1587 -0.34068756 -0.28188159 -0.27887059 1.624781690 0.1703355676 1.64301511
## 1588 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1589 3.07408587 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1590 1.44648358 -0.28188159 1.22033380 1.696825082 0.4795142299 -0.29459327
## 1591 -0.02154986 -0.05631454 1.14001928 0.039827053 -0.0615484292 -0.29459327
## 1592 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1593 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1594 -0.34068756 2.15424258 -0.27887059 -0.320389910 0.4485963636 2.61181929
## 1595 -0.34068756 0.30459275 -0.27887059 1.552738297 -0.3861860246 1.10479056
## 1596 0.07419145 -0.28188159 -0.27887059 0.147892142 1.9326539427 -0.29459327
## 1597 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1598 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8244414109 -0.29459327
## 1599 -0.24494625 -0.28188159 0.20301653 1.624781690 0.5568088954 1.21243547
## 1600 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1601 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 1602 -0.34068756 -0.28188159 -0.27887059 3.678018378 -0.3861860246 -0.29459327
## 1603 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1604 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1605 0.77629440 -0.28188159 -0.27887059 -0.320389910 0.1548766344 -0.29459327
## 1606 0.87203571 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1607 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1608 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1609 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1610 2.14858653 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1611 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1612 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1613 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1614 0.45715670 0.28203604 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 1615 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1616 -0.34068756 0.84595367 0.39041708 -0.320389910 1.1751662201 -0.29459327
## 1617 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1618 0.77629440 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1619 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1620 0.87203571 0.57527321 0.73844667 -0.320389910 -0.3861860246 1.75066002
## 1621 -0.34068756 -0.12398466 -0.27887059 2.093063742 0.5413499623 0.88950074
## 1622 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.3703347224 -0.29459327
## 1623 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1624 0.29758784 0.62038662 -0.01115552 4.758669267 0.8505286246 0.24363128
## 1625 3.23365472 -0.28188159 5.71794697 -0.320389910 -0.3861860246 5.73352167
## 1626 1.19117342 -0.28188159 -0.27887059 0.544130801 -0.3861860246 2.28888456
## 1627 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1628 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1629 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1630 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0621230358 -0.29459327
## 1631 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1632 -0.05346363 -0.07887124 -0.27887059 0.724239283 -0.2470556266 2.28888456
## 1633 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1634 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1635 -0.34068756 -0.28188159 8.07383959 -0.320389910 -0.3861860246 -0.29459327
## 1636 1.38265604 4.63548017 -0.27887059 -0.320389910 0.4485963636 -0.29459327
## 1637 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1638 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```



```

## 1639 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1640 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1641 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.3606734174 -0.29459327
## 1642 -0.34068756 -0.28188159 0.97939024 -0.320389910 2.5664702004 -0.29459327
## 1643 6.99947963 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1644 0.61672555 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.32008038
## 1645 -0.08537740 -0.28188159 0.41718859 -0.320389910 -0.3861860246 -0.29459327
## 1646 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1647 1.03160456 0.68805674 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 1648 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8399003440 -0.29459327
## 1649 0.93586325 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1650 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1651 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1652 -0.34068756 -0.28188159 3.46914039 0.940369460 0.1548766344 -0.29459327
## 1653 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.39652947
## 1654 -0.34068756 1.13919084 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1655 2.21241407 -0.28188159 1.86284997 2.561345793 1.4688859492 -0.29459327
## 1656 -0.34068756 -0.28188159 -0.27887059 2.993606149 -0.3861860246 -0.29459327
## 1657 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1658 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1659 -0.02154986 -0.28188159 1.11324777 0.436065712 0.4176784974 -0.29459327
## 1660 -0.34068756 -0.28188159 -0.27887059 0.652195890 -0.3861860246 -0.29459327
## 1661 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1662 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1663 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1664 -0.34068756 0.98129391 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1665 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1666 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1667 -0.34068756 -0.28188159 0.65813215 -0.320389910 -0.3861860246 0.62038847
## 1668 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 4.87236240
## 1669 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1670 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1671 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1672 -0.34068756 -0.28188159 1.78253545 -0.320389910 -0.3861860246 -0.29459327
## 1673 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3558427649 -0.29459327
## 1674 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1675 0.26567407 0.14669581 2.31796559 2.813497667 0.5104320961 0.18980883
## 1676 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1677 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1678 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 1679 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1680 -0.34068756 -0.28188159 0.25655955 -0.320389910 -0.0770073623 -0.29459327
## 1681 -0.34068756 -0.28188159 -0.27887059 2.381237312 -0.3861860246 -0.29459327
## 1682 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1683 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1684 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1685 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1686 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1687 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1688 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1689 -0.34068756 1.92867553 -0.27887059 1.444673208 -0.3861860246 -0.29459327
## 1690 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 1691 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7732339591 -0.29459327
## 1692 -0.34068756 -0.28188159 -0.27887059 5.767276763 -0.3861860246 2.28888456

```

```

## 1693 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1694 -0.02154986 -0.05631454 -0.27887059 0.400044016 -0.0770073623 1.85830493
## 1695 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1696 7.76541012 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1697 -0.34068756 -0.28188159 1.16679079 -0.320389910 0.0312051695 -0.29459327
## 1698 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1699 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1700 -0.34068756 -0.28188159 0.04238749 0.580152498 -0.2006788272 0.35127619
## 1701 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1133304876 -0.29459327
## 1702 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1703 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1704 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1705 -0.34068756 1.97378894 -0.27887059 -0.320389910 1.1597072869 -0.29459327
## 1706 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1707 0.23376030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.18694836
## 1708 -0.18111871 -0.28188159 -0.27887059 -0.140281428 -0.2161377603 0.29745374
## 1709 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1710 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1711 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1712 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2167123669 -0.29459327
## 1713 0.52098424 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1714 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1715 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1716 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1717 0.93586325 0.16925251 0.52427462 1.120477942 2.2572915381 0.24363128
## 1718 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1719 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1720 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1721 0.20184653 -0.10142795 -0.27887059 0.940369460 -0.1233841616 -0.29459327
## 1722 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1723 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1724 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.5713008529 -0.29459327
##          V12          V13          V14          V15          V16
## 1  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 2  -4.895427e-01 -0.31073882 -0.159375873 -0.19835608 -0.159424622
## 3   1.013936e+00 0.33606695 0.026682289 -0.19835608 -0.277735009
## 4  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 5  -1.049319e-01 1.11223387 -0.159375873 -0.19835608 -0.277735009
## 6  -6.177463e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 7  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 8  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 9  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 10 8.973872e-01 3.24669291 -0.159375873 -0.19835608 0.044929682
## 11 2.027910e+00 -0.31073882 -0.159375873 5.32419235 -0.277735009
## 12 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 13 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 14 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 15 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 16 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 17 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 18 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 19 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 20 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 21 -6.177463e-01 3.21435262 -0.159375873 -0.19835608 -0.277735009

```

```

## 22 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 23 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 24 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 25 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 26 5.943605e-01 0.14202522 0.057691983 -0.19835608 -0.277735009
## 27 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 28 2.983609e+00 -0.31073882 3.034622583 -0.19835608 -0.277735009
## 29 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 30 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 31 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 32 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 33 -1.398965e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 34 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 35 -6.177463e-01 -0.31073882 -0.159375873 1.04513165 0.453638289
## 36 3.029887e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 37 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 38 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 39 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 40 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 41 6.666549e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 42 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 43 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 44 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 45 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 46 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 47 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 48 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 49 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.281810994
## 50 4.440469e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 51 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 52 3.146436e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 53 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 54 1.514753e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 55 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 56 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 0.163240068
## 57 5.512717e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 58 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 59 -6.177463e-01 2.50286627 -0.159375873 -0.19835608 -0.277735009
## 60 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 61 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 62 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 63 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 64 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 65 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 66 -2.214806e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 67 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 68 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 69 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 70 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 71 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 72 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 73 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 74 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 6.444446037
## 75 2.703892e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 76 1.161687e-02 0.65946983 0.026682289 -0.19835608 -0.277735009
## 77 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 78 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 79 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 80 -3.263744e-01 4.57264473 -0.159375873 2.54463155 -0.277735009
## 81 -2.681001e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 82 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 83 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 84 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 85 7.342190e-01 -0.31073882 -0.159375873 4.04413146 -0.277735009
## 86 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 87 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 88 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 89 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 90 -6.177463e-01 -0.31073882 -0.159375873 2.03260720 -0.277735009
## 91 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 92 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 93 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 94 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 95 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 96 2.214046e-01 1.50031733 -0.159375873 -0.19835608 -0.019603256
## 97 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 98 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 99 -4.545780e-01 -0.31073882 -0.159375873 0.31366828 0.034174192
## 100 2.750512e+00 -0.31073882 -0.159375873 -0.19835608 1.271055504
## 101 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 102 1.631302e-01 -0.31073882 0.336779227 -0.19835608 0.260039475
## 103 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.098967670
## 104 1.065252e+01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 105 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 106 1.596680e+00 -0.31073882 -0.159375873 -0.19835608 -0.030358746
## 107 1.316963e+00 0.01266406 0.801924633 -0.19835608 -0.277735009
## 108 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 109 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.410876870
## 110 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 111 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 112 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 113 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.981178362
## 114 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 115 3.729179e-01 0.36840724 -0.159375873 -0.19835608 -0.277735009
## 116 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.658253133
## 117 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 118 -2.681001e-01 4.63732531 -0.159375873 -0.19835608 -0.277735009
## 119 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 120 -6.177463e-01 17.63812125 -0.159375873 -0.19835608 -0.277735009
## 121 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 122 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 123 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 124 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 125 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 126 1.666609e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 127 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 0.098707130
## 128 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 129 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 130 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 131 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 132 1.161687e-02 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 133 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 134 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 135 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 136 1.212069e+00 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 137 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 138 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 139 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 140 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 141 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 0.292305944
## 142 1.724883e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 143 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 144 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.690259062
## 145 -1.169287e-02 -0.18137767 0.119711371 -0.19835608 -0.277735009
## 146 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 147 5.593959e-01 0.27138637 -0.159375873 -0.19835608 -0.277735009
## 148 -3.963037e-01 -0.31073882 0.119711371 -0.19835608 -0.277735009
## 149 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 150 3.262984e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 151 1.747851e-01 1.37095618 0.956973102 0.82569264 0.496660248
## 152 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 153 2.272662e+00 1.27393531 -0.159375873 -0.19835608 5.067743359
## 154 -4.196134e-01 -0.05201651 -0.159375873 -0.19835608 -0.191691091
## 155 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 156 6.176703e-01 -0.31073882 -0.159375873 -0.19835608 0.475149269
## 157 1.503441e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 158 2.249352e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 159 6.526349e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 160 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 161 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.191691091
## 162 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 163 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 164 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 165 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 166 7.458739e-01 -0.05201651 0.615866471 -0.19835608 -0.277735009
## 167 1.456821e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 168 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 169 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 170 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 171 -6.177463e-01 -0.31073882 0.925963408 -0.19835608 -0.277735009
## 172 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 173 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 174 -4.662329e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 175 4.545020e-01 1.17691445 -0.159375873 -0.19835608 -0.277735009
## 176 1.678264e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 177 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 178 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 179 -6.177463e-01 2.08244252 -0.159375873 -0.19835608 -0.277735009
## 180 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 181 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 182 3.228362e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 183 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979

```

```

## 184 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 185 -6.177463e-01 0.17436551 -0.159375873 0.35024145 -0.116402663
## 186 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.217538596
## 187 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 188 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 189 -2.214806e-01 0.40074753 0.181730758 7.70144829 -0.277735009
## 190 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 191 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 192 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.862346897
## 193 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 194 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 195 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 196 -6.177463e-01 -0.31073882 -0.159375873 1.74002185 -0.277735009
## 197 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 198 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 199 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.120218109
## 200 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 201 5.710508e-01 2.98797060 -0.159375873 -0.19835608 0.819324938
## 202 -6.177463e-01 0.69181012 -0.159375873 -0.19835608 0.399860841
## 203 1.829777e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 204 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 205 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 206 1.980948e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 207 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 208 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 209 1.923016e+00 -0.31073882 3.220680745 -0.19835608 -0.277735009
## 210 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 211 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 212 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 213 -6.177463e-01 4.15222098 -0.159375873 -0.19835608 -0.277735009
## 214 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 215 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 216 -6.177463e-01 4.24924185 -0.159375873 -0.19835608 -0.277735009
## 217 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 218 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 219 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 220 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 221 1.235379e+00 -0.31073882 -0.159375873 -0.19835608 1.432387849
## 222 -6.177463e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 223 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.066440661
## 224 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 225 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 226 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 227 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 228 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 229 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 230 5.360861e-01 0.04500435 0.181730758 -0.19835608 -0.277735009
## 231 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 232 2.563692e-01 0.17436551 -0.159375873 -0.19835608 -0.277735009
## 233 5.127764e-01 1.53265762 3.747845539 -0.19835608 0.001907723
## 234 -5.011975e-01 -0.31073882 0.150721064 -0.19835608 -0.277735009
## 235 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 236 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 237 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 238 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 239 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 240 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 241 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 242 1.398205e-01 1.79137993 3.561787376 -0.08863657 -0.051869725
## 243 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 244 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 245 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 246 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 247 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 248 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 249 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 250 4.533708e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 251 -2.681001e-01 4.63732531 -0.159375873 -0.19835608 -0.277735009
## 252 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 253 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 254 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 255 -6.177463e-01 0.72415041 -0.159375873 -0.19835608 -0.277735009
## 256 -6.177463e-01 0.33606695 -0.159375873 -0.19835608 0.614970634
## 257 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 258 -1.748611e-01 0.07734464 -0.159375873 3.97098512 -0.277735009
## 259 -6.177463e-01 0.04500435 0.553847083 -0.19835608 -0.277735009
## 260 1.048559e-01 -0.31073882 -0.159375873 5.87278988 -0.277735009
## 261 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 1.744297050
## 262 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 263 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 264 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 265 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 266 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 267 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 268 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.045190221
## 269 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 270 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 271 1.161687e-02 -0.31073882 1.515147589 -0.19835608 -0.277735009
## 272 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 273 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 274 -6.177463e-01 2.01776195 -0.159375873 -0.19835608 -0.277735009
## 275 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 276 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 277 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 278 -6.177463e-01 0.49776839 -0.159375873 -0.19835608 -0.008847767
## 279 2.327174e-02 1.72669935 -0.159375873 -0.19835608 0.227773006
## 280 -6.177463e-01 -0.31073882 13.298831212 -0.19835608 -0.277735009
## 281 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 282 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 283 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 284 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 285 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 286 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 10.649842499
## 287 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 288 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 289 -3.496842e-01 -0.31073882 5.019242982 -0.19835608 -0.277735009
## 290 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 291 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 292 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 293 2.330595e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 294 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 295 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 296 -6.177463e-01 5.76923540 -0.159375873 -0.19835608 -0.277735009
## 297 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 298 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 299 -5.944365e-01 -0.31073882 -0.159375873 -0.19835608 -0.223957560
## 300 1.130485e+00 0.27138637 -0.159375873 -0.19835608 0.926879835
## 301 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 302 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 303 5.593959e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 304 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 305 -4.429232e-01 0.17436551 -0.159375873 -0.19835608 -0.277735009
## 306 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 307 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 308 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 309 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 310 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 311 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.485904758
## 312 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 313 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 314 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 315 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 316 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 317 4.658149e-02 2.59988714 -0.159375873 0.38681462 -0.277735009
## 318 -6.177463e-01 7.77433329 -0.159375873 -0.19835608 -0.277735009
## 319 -6.177463e-01 0.62712954 -0.159375873 -0.19835608 -0.277735009
## 320 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 321 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 322 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 323 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 324 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 325 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 326 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 327 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 328 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 329 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 330 1.806467e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 331 9.556616e-01 3.11733175 -0.159375873 -0.19835608 0.034174192
## 332 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 333 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.077456690
## 334 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 335 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 336 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 337 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 338 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 339 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 340 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 341 -3.147196e-01 0.53010868 -0.159375873 0.27709511 0.001907723
## 342 -3.263744e-01 3.02031089 -0.159375873 -0.19835608 0.550437696
## 343 5.943605e-01 -0.31073882 -0.159375873 -0.19835608 1.959406843
## 344 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 345 3.146436e-01 -0.31073882 -0.159375873 5.28761918 -0.277735009

```



```

## 346 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 347 -4.429232e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 348 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 0.905368855
## 349 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 350 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 351 4.778118e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 352 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 353 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 354 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 355 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 356 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 357 3.612631e-01 -0.31073882 -0.159375873 1.00855848 1.357099422
## 358 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 359 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 360 -6.177463e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 361 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 362 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 363 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 364 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 365 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 366 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 367 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 368 1.247033e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 369 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 370 -4.778878e-01 0.07734464 -0.159375873 0.24052195 -0.277735009
## 371 -4.079585e-01 0.59478926 -0.159375873 -0.19835608 -0.277735009
## 372 -6.177463e-01 -0.31073882 -0.159375873 1.66687551 1.948651354
## 373 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 374 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.148669132
## 375 -6.177463e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 376 6.642898e-01 1.46797704 -0.159375873 -0.19835608 -0.277735009
## 377 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.722525531
## 378 -6.177463e-01 -0.31073882 4.026932782 -0.19835608 -0.277735009
## 379 1.794812e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 380 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.174256097
## 381 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 382 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 383 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 384 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.690259062
## 385 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.346083393
## 386 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 387 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 388 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 0.303061434
## 389 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 390 3.181742e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 391 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 392 -2.098257e-01 1.37095618 0.367788921 -0.19835608 -0.191691091
## 393 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 394 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 395 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 2.701535631
## 396 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.098967670
## 397 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 398 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 399 2.680241e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009

```

```

## 400 -5.478170e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 401 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 402 -3.263744e-01 0.04500435 -0.004327404 -0.16178291 -0.245468539
## 403 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 404 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 405 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 406 9.789713e-01 -0.31073882 0.088701677 -0.19835608 0.270794965
## 407 -6.177463e-01 2.79392887 -0.159375873 -0.19835608 -0.277735009
## 408 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 2.045450761
## 409 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 410 1.981290e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 411 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 412 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 413 -2.681001e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 414 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 415 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 416 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 417 1.608334e+00 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 418 1.515095e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 419 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 420 1.980948e-01 -0.31073882 -0.159375873 1.08170482 0.475149269
## 421 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.324832953
## 422 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 423 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 424 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 425 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 426 8.973872e-01 0.23904608 -0.159375873 1.99603403 0.464393779
## 427 3.694557e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 428 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 429 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 430 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 431 -3.147196e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 432 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 433 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 434 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 435 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 436 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 437 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 438 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 439 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.916124345
## 440 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 441 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.604475684
## 442 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 443 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 444 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.335848982
## 445 -6.177463e-01 0.72415041 -0.159375873 -0.19835608 -0.277735009
## 446 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 447 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 448 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 0.496660248
## 449 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 450 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 451 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.170180112
## 452 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 453 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 454 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 455 1.864742e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 456 4.545020e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 457 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 458 -2.914098e-01 0.59478926 -0.159375873 -0.19835608 0.625726124
## 459 -6.177463e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 460 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.174256097
## 461 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 462 -1.398965e-01 -0.21371795 -0.159375873 -0.19835608 -0.266979519
## 463 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 464 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 465 1.200414e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 466 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 467 -6.177463e-01 0.46542810 -0.159375873 -0.19835608 -0.277735009
## 468 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 469 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 470 -6.177463e-01 0.36840724 -0.159375873 -0.19835608 0.625726124
## 471 6.060154e-01 -0.31073882 -0.159375873 7.51858245 -0.277735009
## 472 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 473 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 474 -6.177463e-01 4.34626271 -0.159375873 -0.19835608 1.271055504
## 475 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 476 -9.327698e-02 -0.21371795 0.057691983 -0.19835608 -0.159424622
## 477 1.223724e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 478 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 479 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 480 -2.214806e-01 0.23904608 -0.159375873 5.14132651 0.087951640
## 481 4.195374e-01 1.11223387 3.065632276 -0.08863657 0.001907723
## 482 1.456821e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 483 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 484 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 485 1.316963e+00 0.01266406 0.801924633 -0.19835608 -0.277735009
## 486 8.274580e-01 0.20670580 -0.159375873 2.21547304 0.604215145
## 487 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 488 -3.613391e-01 2.56754685 -0.159375873 -0.19835608 0.195506537
## 489 -3.496842e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 490 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 491 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 492 -4.196134e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 493 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 0.055685171
## 494 2.016255e+00 -0.31073882 1.236060345 -0.19835608 0.206262027
## 495 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 496 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 497 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 498 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 499 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 500 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 501 -6.177463e-01 -0.31073882 2.476448095 -0.19835608 -0.277735009
## 502 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 503 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 504 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.141729089
## 505 -1.515513e-01 -0.31073882 -0.159375873 -0.19835608 -0.062625215
## 506 -6.177463e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 507 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009

```

```

## 508 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 4.024460860
## 509 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 510 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 511 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 512 -6.177463e-01 0.04500435 0.553847083 -0.19835608 -0.277735009
## 513 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 514 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 515 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 516 -4.895427e-01 -0.31073882 -0.159375873 -0.19835608 -0.159424622
## 517 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 0.055685171
## 518 -4.895427e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 519 -5.245073e-01 -0.31073882 -0.159375873 -0.12520974 -0.277735009
## 520 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 521 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 522 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 523 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 524 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 525 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 0.163240068
## 526 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 527 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.206262027
## 528 5.477410e-01 0.33606695 -0.159375873 -0.19835608 -0.277735009
## 529 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 530 3.076848e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 531 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 532 4.673566e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 533 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 534 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 535 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 536 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.228033546
## 537 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 538 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 539 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 540 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 0.905368855
## 541 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 542 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 543 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 544 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 545 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 546 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 547 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 548 3.379533e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 549 -1.169287e-02 -0.18137767 0.119711371 -0.19835608 -0.277735009
## 550 3.950964e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 551 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 552 4.545020e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 553 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 554 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 1.378610401
## 555 1.980948e-01 -0.31073882 -0.159375873 1.08170482 0.475149269
## 556 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 557 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 0.518171227
## 558 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 559 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 560 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 561 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 562 1.316963e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 563 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 564 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 565 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 566 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 567 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 568 -4.778878e-01 0.49776839 -0.159375873 -0.19835608 -0.148669132
## 569 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 570 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 571 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 572 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 573 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 574 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 575 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 576 5.477410e-01 -0.05201651 -0.159375873 -0.19835608 -0.277735009
## 577 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 578 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 579 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 580 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.152745118
## 581 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 582 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 583 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 584 1.212069e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 585 -2.914098e-01 0.04500435 -0.159375873 -0.19835608 -0.094891684
## 586 3.379533e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 587 -6.177463e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 588 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 589 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.475409808
## 590 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 591 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 592 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 593 1.678264e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 594 2.529069e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 595 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 596 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.019603256
## 597 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 598 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 599 3.845728e-01 -0.31073882 1.422118508 -0.19835608 -0.277735009
## 600 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 601 1.161687e-02 1.43563676 -0.159375873 -0.19835608 0.303061434
## 602 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 0.787058469
## 603 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 604 2.156113e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 605 1.980948e-01 -0.31073882 -0.159375873 -0.19835608 0.851591407
## 606 1.386892e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 607 -6.177463e-01 4.89604762 -0.159375873 -0.19835608 -0.277735009
## 608 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 609 1.165107e-01 -0.01967622 0.956973102 -0.19835608 -0.277735009
## 610 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 611 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.916124345
## 612 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 613 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 614 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 615 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009

```

```

## 616 4.440469e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 617 4.778118e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 618 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.185011587
## 619 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 620 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 621 1.165449e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 622 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 623 3.146778e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 624 4.658149e-02 2.59988714 -0.159375873 0.38681462 -0.277735009
## 625 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 626 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 627 6.235319e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 628 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 629 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 630 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 631 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 632 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 633 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 634 -3.729939e-01 0.36840724 -0.159375873 -0.19835608 -0.277735009
## 635 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 636 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 1.131234139
## 637 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 638 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 639 8.041482e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 640 -6.177463e-01 -0.31073882 2.321399627 -0.19835608 -0.277735009
## 641 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 642 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 643 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 644 1.281656e-01 0.49776839 -0.159375873 0.24052195 -0.277735009
## 645 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 646 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 647 8.391128e-01 -0.31073882 -0.159375873 0.93541214 1.400121380
## 648 2.214388e+00 -0.31073882 1.329089427 -0.19835608 0.238528496
## 649 2.214388e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 650 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 651 1.037246e+00 -0.31073882 -0.159375873 -0.19835608 1.249544525
## 652 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 653 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 654 -1.282416e-01 -0.31073882 -0.159375873 1.33771700 -0.277735009
## 655 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 656 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 657 4.428472e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 658 -3.496842e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 659 2.447143e-01 -0.31073882 -0.159375873 1.15485115 3.314598542
## 660 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 661 1.398205e-01 1.79137993 3.561787376 -0.08863657 -0.051869725
## 662 -6.177463e-01 0.62712954 -0.159375873 -0.19835608 -0.277735009
## 663 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 664 2.587344e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 665 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 666 -6.177463e-01 5.51051310 -0.159375873 -0.19835608 0.690259062
## 667 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 668 8.624226e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 669 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 670 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 671 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 672 1.048559e-01 1.01521301 -0.159375873 -0.19835608 -0.170180112
## 673 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 674 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 675 -6.177463e-01 3.18201233 -0.159375873 -0.19835608 -0.277735009
## 676 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 677 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 678 -6.177463e-01 0.23904608 -0.159375873 0.42338779 -0.094891684
## 679 -4.895427e-01 0.43308781 -0.159375873 1.52058284 -0.159424622
## 680 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 681 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 682 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 683 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 0.034174192
## 684 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 0.518171227
## 685 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 686 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 687 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 688 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 689 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 690 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 691 -3.263744e-01 0.91819214 -0.159375873 -0.19835608 0.130973599
## 692 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 693 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 694 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 695 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 696 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 697 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 698 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 699 1.083865e+00 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 700 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 701 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 702 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 0.077196151
## 703 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 704 4.078825e-01 3.95817925 -0.159375873 -0.19835608 -0.277735009
## 705 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 706 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 707 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 6.444446037
## 708 -2.334775e-02 1.33861589 -0.159375873 -0.19835608 0.270794965
## 709 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 710 4.661569e-01 2.69690800 -0.159375873 -0.19835608 0.346083393
## 711 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 712 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 713 -2.331355e-01 1.82372022 -0.159375873 -0.19835608 0.432127310
## 714 -6.177463e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 715 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 716 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 717 2.796789e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 718 -5.831237e-02 -0.31073882 1.639186364 -0.19835608 0.657992593
## 719 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 720 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 721 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 722 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 723 2.796789e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 724 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 725 2.214388e+00 -0.31073882 1.329089427 -0.19835608 0.238528496
## 726 1.153794e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 727 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 728 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.346083393
## 729 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 730 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 731 2.750512e+00 -0.31073882 -0.159375873 -0.19835608 1.271055504
## 732 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 733 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 734 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 735 1.002281e+00 1.56499791 3.251690439 0.31366828 -0.127158153
## 736 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 737 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 738 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 1.335588442
## 739 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 740 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 741 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 742 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 743 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 744 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 745 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 746 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 747 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 748 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 749 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 1.787319009
## 750 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 0.292305944
## 751 4.195374e-01 1.43563676 3.127651664 -0.19835608 -0.105647174
## 752 1.398205e-01 -0.31073882 -0.159375873 2.17889987 -0.277735009
## 753 -4.665749e-02 2.89094973 -0.159375873 -0.19835608 -0.277735009
## 754 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 755 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 756 5.209690e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 757 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 758 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 759 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 760 1.351927e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 761 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 762 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 763 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 764 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 765 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 766 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 767 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 768 1.888051e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 769 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 770 3.962277e-01 -0.31073882 -0.159375873 -0.19835608 0.657992593
## 771 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 772 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 773 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 774 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 0.281550454
## 775 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 776 1.864400e-01 0.23904608 0.088701677 2.32519254 0.647237103
## 777 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 778 -3.963037e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 779 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 780 1.794812e+00 -0.31073882 -0.159375873 -0.19835608 -0.094891684
## 781 8.857323e-01 -0.31073882 -0.159375873 0.97198531 0.066440661
## 782 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 783 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 784 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 785 1.853087e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 786 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 787 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.184751047
## 788 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 789 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 790 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 791 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 792 2.680241e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 793 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 794 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 795 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 796 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 797 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 798 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 799 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 800 1.619989e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 801 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 802 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 803 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 804 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 805 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 806 1.212069e+00 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 807 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 808 -2.331355e-01 1.82372022 1.360099120 2.21547304 -0.277735009
## 809 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 810 1.177104e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 811 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.367594372
## 812 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 813 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 814 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 815 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 816 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 817 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 818 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 819 5.710508e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 820 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 821 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 822 1.923016e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 823 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 824 -6.177463e-01 -0.31073882 30.850317871 -0.19835608 -0.277735009
## 825 -3.263744e-01 4.66966560 -0.159375873 2.61777789 -0.277735009
## 826 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 827 -3.263744e-01 1.33861589 -0.159375873 -0.19835608 -0.277735009
## 828 -6.177463e-01 4.79902675 -0.159375873 -0.19835608 -0.277735009
## 829 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 830 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 831 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

|        |               |             |              |             |              |
|--------|---------------|-------------|--------------|-------------|--------------|
| ## 832 | 8.154611e-02  | 0.23904608  | 0.367788921  | -0.19835608 | -0.277735009 |
| ## 833 | -5.011975e-01 | 0.33606695  | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 834 | -6.177463e-01 | 3.21435262  | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 835 | -1.981708e-01 | -0.31073882 | -0.159375873 | -0.19835608 | 0.109462620  |
| ## 836 | -3.030647e-01 | 4.18456127  | -0.159375873 | -0.19835608 | 0.012663213  |
| ## 837 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 838 | 5.943605e-01  | 0.14202522  | 0.057691983  | -0.19835608 | -0.277735009 |
| ## 839 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 840 | 6.176703e-01  | -0.31073882 | -0.159375873 | -0.19835608 | 0.475149269  |
| ## 841 | 4.428472e-01  | -0.31073882 | -0.159375873 | -0.19835608 | 0.701014552  |
| ## 842 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 843 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 844 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 845 | 3.647937e+00  | -0.01967622 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 846 | -3.380293e-01 | -0.31073882 | -0.159375873 | 0.67939997  | -0.277735009 |
| ## 847 | 9.090421e-01  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 848 | -3.800089e-05 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 849 | 2.610654e+00  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 850 | 2.214046e-01  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 851 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 852 | 1.759848e+00  | 0.33606695  | 0.150721064  | -0.19835608 | -0.277735009 |
| ## 853 | 3.950964e+00  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 854 | 1.072210e+00  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 855 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | 1.851851947  |
| ## 856 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | 0.130973599  |
| ## 857 | 1.002281e+00  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 858 | 1.161687e-02  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 859 | 4.658149e-02  | 1.53265762  | -0.159375873 | -0.19835608 | -0.073380705 |
| ## 860 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 861 | 1.864400e-01  | 0.62712954  | -0.159375873 | 5.58020453  | -0.180935601 |
| ## 862 | 1.161687e-02  | -0.31073882 | -0.159375873 | -0.19835608 | 0.303061434  |
| ## 863 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 864 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 865 | -1.748611e-01 | 0.91819214  | -0.159375873 | -0.19835608 | 0.130973599  |
| ## 866 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | 2.884378955  |
| ## 867 | 2.156113e+00  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 868 | -6.177463e-01 | -0.31073882 | -0.159375873 | 2.03260720  | -0.277735009 |
| ## 869 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 870 | 2.680241e-01  | -0.31073882 | -0.159375873 | -0.19835608 | 0.260039475  |
| ## 871 | 3.496082e-01  | -0.31073882 | -0.159375873 | -0.19835608 | 0.614970634  |
| ## 872 | -4.895427e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.159424622 |
| ## 873 | -1.049319e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 874 | -4.662329e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.137913643 |
| ## 875 | 8.973872e-01  | -0.31073882 | 0.088701677  | -0.19835608 | 0.238528496  |
| ## 876 | -3.147196e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 877 | -5.245073e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 878 | -1.282416e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 879 | -6.177463e-01 | -0.31073882 | 3.778855232  | -0.19835608 | -0.277735009 |
| ## 880 | 1.048559e-01  | 0.69181012  | -0.159375873 | 3.97098512  | -0.277735009 |
| ## 881 | 3.845728e-01  | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 882 | -6.177463e-01 | 0.23904608  | -0.159375873 | 0.42338779  | -0.094891684 |
| ## 883 | -6.177463e-01 | -0.31073882 | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 884 | 1.161687e-02  | 1.43563676  | -0.159375873 | -0.19835608 | -0.277735009 |
| ## 885 | 8.154611e-02  | 0.23904608  | 0.367788921  | -0.19835608 | -0.277735009 |

```

## 886 4.673566e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 887 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 888 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 889 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 890 -6.177463e-01 0.20670580 -0.159375873 0.38681462 -0.105647174
## 891 2.447143e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 892 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 893 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 894 9.906262e-01 -0.31073882 -0.159375873 8.25004582 -0.277735009
## 895 3.729179e-01 1.24159502 -0.159375873 6.89683859 -0.148669132
## 896 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 897 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 898 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 899 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 900 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 901 1.747851e-01 0.62712954 -0.159375873 5.54363136 -0.180935601
## 902 1.095520e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 903 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 904 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 905 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 906 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 907 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.400121380
## 908 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 909 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 910 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 911 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 912 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.851591407
## 913 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 914 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 915 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 0.303061434
## 916 1.491786e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 917 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 918 2.796789e-01 1.30627560 3.933903701 -0.08863657 -0.030358746
## 919 -6.177463e-01 1.07989358 -0.159375873 -0.19835608 0.184751047
## 920 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 921 8.274580e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 922 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 923 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 924 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 925 1.514753e-01 0.40074753 -0.159375873 -0.19835608 0.916124345
## 926 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 927 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 928 3.492662e-02 0.07734464 0.026682289 -0.19835608 -0.277735009
## 929 2.680241e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 930 -6.177463e-01 2.69690800 -0.159375873 -0.19835608 -0.277735009
## 931 1.864400e-01 0.62712954 -0.159375873 5.58020453 -0.180935601
## 932 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 933 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 934 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 935 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 936 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 937 1.573370e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 938 6.526349e-01 0.07734464 -0.159375873 -0.19835608 -0.277735009
## 939 3.262984e-01 -0.14903738 0.181730758 -0.19835608 -0.277735009

```

```

## 940 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 941 4.078825e-01 1.82372022 -0.159375873 3.82469245 0.432127310
## 942 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 943 4.428472e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 944 -6.177463e-01 -0.31073882 -0.159375873 1.04513165 0.453638289
## 945 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 946 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 947 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 948 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 949 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 950 7.575287e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 951 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 952 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 953 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 954 6.176703e-01 -0.31073882 -0.159375873 7.55515562 -0.277735009
## 955 2.796789e-01 -0.01967622 4.957223595 -0.19835608 0.346083393
## 956 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 957 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 958 -6.177463e-01 0.88585185 2.135341464 -0.19835608 -0.277735009
## 959 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 960 3.729179e-01 0.49776839 -0.159375873 -0.19835608 -0.116402663
## 961 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 962 1.247033e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 963 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 964 -3.263744e-01 4.66966560 -0.159375873 2.61777789 -0.277735009
## 965 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 966 5.943605e-01 0.10968493 -0.159375873 -0.19835608 0.916124345
## 967 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 1.679764112
## 968 -2.331355e-01 1.85606050 1.918273608 1.63030234 -0.277735009
## 969 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 970 2.179423e+00 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 971 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 972 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 973 4.149097e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 974 6.176703e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 975 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 976 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 977 1.270343e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 978 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 979 7.808385e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 980 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.421371820
## 981 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 982 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 1.937895864
## 983 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 984 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 985 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 986 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.120218109
## 987 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 988 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 989 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 990 6.875995e-01 0.40074753 0.522837389 -0.19835608 -0.277735009
## 991 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 992 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.184751047
## 993 8.624226e-01 0.78883099 -0.159375873 -0.19835608 0.346083393

```

```

## 994 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.023418702
## 995 -6.177463e-01 -0.31073882 -0.159375873 3.05665591 -0.277735009
## 996 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.668748083
## 997 2.459140e+00 -0.31073882 0.987982796 -0.19835608 0.120218109
## 998 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 999 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1000 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1001 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 2.045450761
## 1002 2.004600e+00 -0.31073882 1.236060345 -0.19835608 0.206262027
## 1003 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.507936817
## 1004 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1005 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1006 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1007 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1008 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1009 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1010 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1011 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1012 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1013 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1014 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1015 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1016 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1017 -6.177463e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 1018 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1019 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1020 -3.147196e-01 0.53010868 -0.159375873 0.27709511 0.001907723
## 1021 -1.169287e-02 1.04755329 -0.159375873 -0.19835608 -0.277735009
## 1022 -3.496842e-01 -0.31073882 -0.159375873 -0.19835608 -0.030358746
## 1023 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1024 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 1025 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1026 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1027 6.642898e-01 0.10968493 -0.159375873 -0.19835608 -0.277735009
## 1028 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 1029 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1030 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1031 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1032 1.398205e-01 -0.31073882 -0.159375873 2.17889987 -0.277735009
## 1033 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1034 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 5.100009828
## 1035 -2.914098e-01 0.04500435 -0.159375873 -0.19835608 -0.094891684
## 1036 1.161687e-02 -0.31073882 1.515147589 -0.19835608 -0.277735009
## 1037 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1038 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.475409808
## 1039 4.658149e-02 0.46542810 -0.159375873 -0.19835608 -0.105647174
## 1040 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1041 5.827056e-01 -0.31073882 1.422118508 -0.19835608 -0.277735009
## 1042 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1043 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1044 1.421856e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1045 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1046 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1047 -4.778878e-01 -0.31073882 -0.159375873 0.24052195 -0.277735009

```

```

## 1048 5.512717e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1049 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1050 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 1051 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1052 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1053 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1054 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1055 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1056 4.658149e-02 -0.31073882 -0.159375873 10.26157008 -0.073380705
## 1057 -6.177463e-01 0.23904608 -0.159375873 -0.19835608 -0.094891684
## 1058 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 1059 3.492662e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1060 -6.177463e-01 3.21435262 -0.159375873 -0.19835608 -0.277735009
## 1061 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1062 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 2.475670348
## 1063 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 1064 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1065 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 -0.191691091
## 1066 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 1067 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.486165298
## 1068 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1069 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 1070 9.323518e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1071 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1072 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1073 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1074 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1075 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1076 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1077 -5.011975e-01 -0.21371795 -0.159375873 -0.19835608 -0.245468539
## 1078 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1079 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1080 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1081 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1082 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1083 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1084 -6.177463e-01 -0.31073882 -0.159375873 1.81316819 0.916124345
## 1085 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1086 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 1087 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1088 1.980948e-01 1.69435906 3.809864926 -0.08863657 -0.030358746
## 1089 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.217017516
## 1090 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1091 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1092 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1093 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1094 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1095 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 1096 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 1097 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1098 1.468476e+00 0.40074753 0.181730758 -0.19835608 -0.159424622
## 1099 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1100 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1101 -6.177463e-01 2.01776195 -0.159375873 -0.19835608 -0.277735009

```

```

## 1102 -3.963037e-01 -0.31073882 0.429808308 -0.19835608 -0.277735009
## 1103 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1104 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1105 -2.797549e-01 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 1106 3.962277e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1107 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1108 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1109 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1110 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1111 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 1112 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 0.367594372
## 1113 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1114 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1115 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1116 1.759848e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1117 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1118 -2.214806e-01 1.92074108 1.980292995 2.32519254 -0.277735009
## 1119 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1120 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1121 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1122 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 1123 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1124 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 1125 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1126 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1127 -6.177463e-01 -0.31073882 4.150971557 -0.19835608 -0.277735009
## 1128 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1129 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1130 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1131 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1132 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1133 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1134 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1135 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1136 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1137 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 1138 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1139 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1140 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 1141 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1142 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1143 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1144 3.492662e-02 1.50031733 -0.159375873 -0.19835608 0.324572413
## 1145 1.923016e+00 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1146 1.188759e+00 -0.31073882 -0.159375873 -0.19835608 0.550437696
## 1147 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1148 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1149 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1150 1.270343e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1151 -6.177463e-01 -0.31073882 1.887263914 -0.19835608 -0.277735009
## 1152 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1153 7.691836e-01 1.20925474 -0.159375873 -0.19835608 -0.030358746
## 1154 1.421856e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1155 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1156 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1157 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1158 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1159 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.851851947
## 1160 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1161 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.012663213
## 1162 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 1163 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1164 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1165 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1166 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1167 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.486165298
## 1168 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 0.980657283
## 1169 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1170 4.720185e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1171 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1172 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1173 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1174 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1175 -4.545780e-01 -0.31073882 -0.159375873 0.31366828 -0.277735009
## 1176 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1177 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1178 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1179 -6.177463e-01 -0.31073882 4.461068495 -0.19835608 -0.277735009
## 1180 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.722786071
## 1181 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 1182 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1183 1.037246e+00 -0.31073882 -0.159375873 -0.19835608 1.249544525
## 1184 4.894667e-01 -0.31073882 0.181730758 -0.19835608 2.013184292
## 1185 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1186 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1187 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.593459655
## 1188 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1189 2.564034e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1190 1.161687e-02 0.10968493 -0.159375873 -0.19835608 -0.277735009
## 1191 3.262984e-01 -0.31073882 -0.159375873 0.97198531 0.249283985
## 1192 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1193 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1194 2.913338e-01 0.53010868 -0.159375873 -0.19835608 -0.277735009
## 1195 3.170087e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1196 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1197 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1198 3.612631e-01 0.20670580 -0.159375873 -0.19835608 0.442882800
## 1199 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1200 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1201 -6.177463e-01 -0.31073882 4.430058801 -0.19835608 -0.277735009
## 1202 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1203 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1204 5.360861e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1205 1.864400e-01 0.23904608 0.088701677 2.32519254 0.647237103
## 1206 3.379533e-01 -0.31073882 -0.159375873 -0.19835608 0.539682207
## 1207 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1208 2.680241e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1209 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 1210 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1211 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1212 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1213 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1214 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1215 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1216 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1217 -6.177463e-01 -0.31073882 6.166601651 -0.19835608 -0.277735009
## 1218 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1219 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 2.497181327
## 1220 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1221 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.701796170
## 1222 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1223 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1224 2.505760e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1225 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1226 -6.177463e-01 -0.31073882 -0.159375873 4.04413146 -0.277735009
## 1227 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1228 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.927400914
## 1229 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1230 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1231 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1232 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.034174192
## 1233 4.661569e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1234 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1235 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1236 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1237 2.051220e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1238 2.330595e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 1239 4.078825e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1240 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 1241 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1242 3.729179e-01 1.24159502 -0.159375873 6.89683859 -0.148669132
## 1243 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.572209215
## 1244 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 1245 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1246 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1247 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1248 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1249 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1250 6.176703e-01 3.11733175 -0.159375873 -0.19835608 -0.277735009
## 1251 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1252 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1253 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1254 -2.334775e-02 1.33861589 -0.159375873 -0.19835608 0.270794965
## 1255 4.195374e-01 1.11223387 3.065632276 -0.08863657 0.001907723
## 1256 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1257 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1258 -6.177463e-01 2.05010224 -0.159375873 -0.19835608 -0.277735009
## 1259 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1260 1.223724e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 1261 2.027910e+00 -0.31073882 -0.159375873 -0.19835608 0.937635324
## 1262 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1263 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1264 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1265 3.962277e-01 1.07989358 -0.159375873 -0.19835608 2.550958775
## 1266 5.850708e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1267 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 1268 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1269 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1270 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1271 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 1272 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1273 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1274 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1275 5.360861e-01 0.04500435 0.181730758 -0.19835608 -0.277735009
## 1276 -6.177463e-01 3.27903320 -0.159375873 -0.19835608 3.325354032
## 1277 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1278 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 1279 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1280 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1281 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 1282 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1283 2.447143e-01 -0.31073882 0.987982796 -0.19835608 0.120218109
## 1284 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1285 -5.361622e-01 0.17436551 -0.159375873 -0.19835608 -0.202446581
## 1286 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.787579548
## 1287 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1288 -6.177463e-01 -0.31073882 14.601238349 -0.19835608 4.841878076
## 1289 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 0.055685171
## 1290 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1291 -6.177463e-01 -0.31073882 1.887263914 -0.19835608 -0.277735009
## 1292 -6.177463e-01 1.79137993 -0.159375873 -0.19835608 -0.277735009
## 1293 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1294 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1295 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1296 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1297 4.661569e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1298 -6.177463e-01 2.92329002 -0.159375873 -0.19835608 -0.277735009
## 1299 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.213202070
## 1300 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1301 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 1302 -6.177463e-01 -0.31073882 6.228621038 -0.19835608 -0.277735009
## 1303 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1304 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1305 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.055945711
## 1306 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1307 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1308 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1309 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1310 4.778118e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 1311 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1312 3.799451e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1313 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1314 4.545020e-01 -0.05201651 0.088701677 -0.19835608 -0.277735009
## 1315 -6.177463e-01 0.20670580 -0.159375873 0.38681462 -0.105647174
## 1316 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1317 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1318 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1319 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1320 3.647937e+00 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1321 -3.963037e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1322 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.045190221
## 1323 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1324 3.962277e-01 -0.05201651 0.088701677 -0.19835608 -0.277735009
## 1325 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1326 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1327 -6.177463e-01 -0.31073882 -0.159375873 15.93041118 -0.277735009
## 1328 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1329 -5.361622e-01 0.17436551 -0.159375873 -0.19835608 -0.202446581
## 1330 -6.177463e-01 -0.31073882 3.158661358 -0.19835608 -0.277735009
## 1331 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1332 -3.613391e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1333 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1334 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1335 -2.098257e-01 1.37095618 0.367788921 -0.19835608 -0.191691091
## 1336 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1337 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1338 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1339 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1340 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1341 2.680241e-01 -0.31073882 0.088701677 -0.19835608 1.453898829
## 1342 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1343 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1344 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 1345 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1346 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1347 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.862346897
## 1348 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1349 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1350 1.161687e-02 0.65946983 0.026682289 -0.19835608 -0.277735009
## 1351 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1352 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1353 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 1.980917823
## 1354 1.480131e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 1355 4.078825e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1356 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1357 2.598999e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1358 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1359 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1360 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1361 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1362 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1363 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1364 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1365 -1.169287e-02 0.23904608 -0.159375873 -0.19835608 -0.277735009
## 1366 -6.177463e-01 -0.31073882 -0.159375873 2.94693641 -0.277735009
## 1367 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1368 -6.177463e-01 -0.31073882 4.678136351 -0.19835608 -0.277735009
## 1369 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1370 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1371 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1372 1.678264e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 1373 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1374 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1375 -4.429232e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1376 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1377 2.330595e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1378 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1379 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1380 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1381 1.864742e+00 -0.31073882 -0.159375873 -0.19835608 -0.105647174
## 1382 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1383 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1384 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1385 2.319282e+00 1.62967849 -0.159375873 -0.19835608 0.367594372
## 1386 -6.177463e-01 -0.05201651 -0.159375873 -0.19835608 -0.277735009
## 1387 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1388 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1389 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1390 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1391 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1392 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1393 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1394 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1395 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1396 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1397 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1398 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1399 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1400 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1401 -5.011975e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1402 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1403 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1404 1.864400e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1405 -6.177463e-01 1.69435906 -0.159375873 -0.19835608 -0.277735009
## 1406 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1407 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1408 2.680241e-01 0.30372666 -0.159375873 -0.19835608 -0.073380705
## 1409 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1410 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1411 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 1.271055504
## 1412 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.030358746
## 1413 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1414 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1415 2.004600e+00 -0.31073882 -0.159375873 5.28761918 -0.277735009
## 1416 4.078825e-01 0.40074753 -0.159375873 3.82469245 0.195506537
## 1417 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1418 -6.177463e-01 -0.31073882 6.352659813 -0.19835608 -0.277735009
## 1419 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1420 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1421 -6.177463e-01 0.69181012 -0.159375873 -0.19835608 0.399860841
## 1422 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1423 -2.681001e-01 0.33606695 -0.159375873 -0.01549023 -0.277735009
## 1424 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 0.055685171
## 1425 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 1.744297050

```

```

## 1426 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1427 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1428 4.929973e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1429 -5.831237e-02 -0.31073882 -0.159375873 -0.01549023 -0.051869725
## 1430 4.195374e-01 1.43563676 3.127651664 -0.19835608 -0.105647174
## 1431 1.328618e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1432 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1433 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1434 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.141729089
## 1435 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 1.228033546
## 1436 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 1437 2.097497e-01 0.23904608 0.088701677 2.39833888 0.668748083
## 1438 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1439 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1440 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1441 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1442 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1443 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 1444 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 1445 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 1446 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 1.077456690
## 1447 1.783158e+00 1.88840079 -0.159375873 1.04513165 -0.277735009
## 1448 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1449 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1450 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1451 2.330595e-01 2.05010224 -0.159375873 -0.19835608 -0.277735009
## 1452 3.262984e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 1453 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 1454 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1455 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1456 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1457 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1458 -2.564452e-01 -0.14903738 -0.159375873 -0.19835608 -0.170180112
## 1459 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1460 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1461 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1462 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1463 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 1464 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 0.657992593
## 1465 2.179423e+00 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 1466 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 1467 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1468 5.360861e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1469 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.593459655
## 1470 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1471 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 1472 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.453898829
## 1473 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1474 5.943605e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1475 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1476 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1477 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1478 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1479 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1480 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1481 1.514753e-01 0.40074753 -0.159375873 -0.19835608 0.916124345
## 1482 6.992544e-01 -0.31073882 -0.159375873 -0.19835608 3.992194391
## 1483 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1484 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1485 1.161687e-02 0.65946983 0.026682289 -0.19835608 -0.277735009
## 1486 6.759446e-01 0.91819214 3.530777683 0.27709511 -0.073380705
## 1487 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1488 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1489 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1490 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1491 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1492 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1493 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1494 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1495 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1496 -6.177463e-01 2.95563031 -0.159375873 -0.19835608 -0.277735009
## 1497 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1498 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1499 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1500 8.624226e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1501 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1502 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1503 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1504 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1505 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1506 1.161687e-02 0.56244897 -0.159375873 -0.19835608 0.593459655
## 1507 2.121149e+00 -0.31073882 1.298079733 -0.19835608 0.227773006
## 1508 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1509 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1510 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1511 -6.177463e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 1512 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1513 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1514 -2.331355e-01 1.82372022 -0.159375873 -0.19835608 0.432127310
## 1515 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1516 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1517 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1518 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1519 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 1520 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1521 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 -0.277735009
## 1522 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1523 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1524 2.878716e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1525 -2.681001e-01 0.65946983 -0.159375873 -0.19835608 0.044929682
## 1526 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1527 5.823636e-02 0.91819214 -0.159375873 3.34924126 -0.277735009
## 1528 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1529 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1530 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 1531 -2.214806e-01 0.23904608 -0.159375873 -0.19835608 -0.277735009
## 1532 -6.177463e-01 1.11223387 -0.159375873 -0.19835608 -0.277735009
## 1533 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578

```

```

## 1534 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1535 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1536 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 1537 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1538 -5.944365e-01 -0.31073882 -0.159375873 -0.19835608 -0.223957560
## 1539 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1540 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.066701201
## 1541 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 1542 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 1543 1.095520e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1544 -1.981708e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1545 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1546 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1547 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 1548 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.077196151
## 1549 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1550 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1551 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1552 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1553 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1554 2.645618e+00 2.69690800 -0.159375873 -0.19835608 -0.277735009
## 1555 5.477410e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 1556 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1557 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1558 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1559 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 1560 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1561 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1562 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1563 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1564 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 1.679764112
## 1565 6.875995e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1566 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1567 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1568 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1569 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1570 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1571 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 0.077196151
## 1572 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1573 -2.214806e-01 1.04755329 0.057691983 1.81316819 0.657992593
## 1574 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 1575 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1576 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1577 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1578 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1579 -4.196134e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1580 2.330937e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1581 -4.429232e-01 -0.31073882 -0.159375873 -0.01549023 -0.277735009
## 1582 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1583 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1584 2.365901e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1585 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1586 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1587 4.311923e-01 -0.31073882 0.956973102 -0.19835608 0.496660248

```

```

## 1588 -6.177463e-01 -0.31073882 5.267320532 -0.19835608 -0.277735009
## 1589 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1590 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1591 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1592 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1593 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1594 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1595 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 1596 -1.515513e-01 -0.31073882 -0.159375873 0.78911947 0.012663213
## 1597 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1598 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1599 1.398205e-01 1.79137993 3.530777683 -0.08863657 -0.051869725
## 1600 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1601 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 1602 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1603 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1604 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1605 -6.177463e-01 0.82117128 -0.159375873 -0.19835608 -0.277735009
## 1606 7.342190e-01 -0.31073882 -0.159375873 4.04413146 -0.277735009
## 1607 1.666609e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1608 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.507415738
## 1609 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1610 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1611 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1612 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1613 -6.177463e-01 0.95053243 -0.159375873 -0.19835608 0.141729089
## 1614 -4.778878e-01 0.07734464 -0.159375873 -0.19835608 -0.277735009
## 1615 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1616 -3.263744e-01 4.57264473 -0.159375873 2.54463155 -0.277735009
## 1617 -1.981708e-01 3.24669291 -0.159375873 -0.19835608 0.109462620
## 1618 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 0.098707130
## 1619 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1620 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 1621 3.379533e-01 -0.08435680 -0.159375873 0.35024145 -0.277735009
## 1622 2.214388e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1623 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1624 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.170180112
## 1625 6.875995e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1626 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1627 3.694557e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1628 2.913680e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1629 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1630 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1631 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1632 2.796789e-01 -0.01967622 4.957223595 -0.19835608 0.346083393
## 1633 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1634 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1635 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1636 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1637 7.342190e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1638 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.561974805
## 1639 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1640 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 1641 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 1642 2.167768e+00 -0.31073882 2.786545033 -0.19835608 0.227773006
## 1643 2.680241e-01 2.14712310 -0.159375873 -0.19835608 -0.277735009
## 1644 2.202733e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 1645 3.333256e+00 0.23904608 -0.159375873 -0.19835608 -0.191691091
## 1646 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1647 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1648 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1649 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 1650 3.146436e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1651 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 21.233244336
## 1652 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 1.980917823
## 1653 5.593959e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1654 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 0.399860841
## 1655 3.146436e-01 0.98287272 -0.159375873 5.14132651 -0.277735009
## 1656 -1.515513e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1657 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1658 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1659 -1.169287e-02 1.72669935 0.150721064 0.16737561 -0.051869725
## 1660 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 1661 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1662 9.320098e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1663 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1664 3.492662e-02 1.50031733 -0.159375873 -0.19835608 0.324572413
## 1665 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1666 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1667 1.456821e+00 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1668 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 1669 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1670 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1671 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1672 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1673 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1674 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 1675 6.293251e-01 0.30372666 2.538467483 0.13080244 -0.277735009
## 1676 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1677 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1678 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 1679 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1680 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1681 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1682 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 0.636481614
## 1683 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1684 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1685 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1686 -6.177463e-01 4.08754041 -0.159375873 -0.19835608 -0.277735009
## 1687 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1688 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 1689 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1690 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 1691 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1692 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.019603256
## 1693 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1694 -3.500262e-02 -0.31073882 1.701205752 -0.19835608 0.701014552
## 1695 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1696 3.612631e-01 2.40584541 -0.159375873 -0.19835608 -0.277735009
## 1697 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 1698 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1699 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1700 -1.748611e-01 0.07734464 -0.159375873 4.00755829 -0.277735009
## 1701 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1702 1.161687e-02 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1703 2.657273e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1704 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1705 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1706 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1707 -5.128524e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 1708 3.492662e-02 -0.14903738 -0.159375873 -0.19835608 -0.159424622
## 1709 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1710 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1711 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1712 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1713 -6.177463e-01 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1714 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1715 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1716 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1717 1.608334e+00 0.33606695 -0.159375873 1.63030234 0.367594372
## 1718 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1719 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.712030581
## 1720 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1721 1.048901e+00 -0.31073882 0.088701677 -0.19835608 0.292305944
## 1722 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.797813959
## 1723 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1724 -6.177463e-01 -0.31073882 -0.159375873 4.48300948 -0.277735009
##          V17          V18          V19          V20          V21
## 1      -0.310262311 -0.371882840 0.410894666 -0.18378346 -0.672980848
## 2      -0.310262311 -0.371882840 -0.401151175 -0.18378346 -0.269675246
## 3         0.125211001 -0.371882840 -0.917380317 -0.18378346 -0.672980848
## 4      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 5      -0.310262311 -0.371882840 -0.186539060 -0.18378346 -0.672980848
## 6      -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.218189425
## 7      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 8      -0.310262311 -0.371882840 0.590704817 -0.18378346 -0.672980848
## 9      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 10     0.125211001 -0.371882840 0.561703179 -0.18378346 0.356735583
## 11     1.322762611 -0.371882840 -0.517157724 -0.18378346 1.927053140
## 12     -0.310262311 -0.371882840 0.944524790 -0.18378346 -0.672980848
## 13     -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 14     -0.310262311 -0.371882840 0.033873383 -0.18378346 -0.381227860
## 15     -0.310262311 -0.371882840 -0.099534148 -0.18378346 -0.672980848
## 16     -0.310262311 -0.371882840 0.590704817 13.03483854 0.468288196
## 17     -0.310262311 -0.371882840 0.474698268 -0.18378346 0.382478493
## 18     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 19     -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.672980848
## 20     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 21     -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 22     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 23     -0.310262311 -0.371882840 -0.354748556 -0.18378346 0.210859088
## 24     -0.310262311 -0.371882840 -0.836175733 -0.18378346 -0.501361443

```

|       |              |              |              |             |              |
|-------|--------------|--------------|--------------|-------------|--------------|
| ## 25 | -0.310262311 | -0.371882840 | 0.451496958  | -0.18378346 | -0.672980848 |
| ## 26 | 0.821968301  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 27 | -0.310262311 | -0.371882840 | -0.203940042 | -0.18378346 | -0.123798752 |
| ## 28 | 0.800194636  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 29 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 30 | -0.310262311 | -0.371882840 | 0.805316932  | -0.18378346 | -0.672980848 |
| ## 31 | -0.310262311 | -0.371882840 | 1.640564082  | -0.18378346 | 0.605583720  |
| ## 32 | -0.310262311 | -0.371882840 | -0.424352485 | -0.18378346 | 1.686785973  |
| ## 33 | -0.310262311 | -0.371882840 | -0.227141352 | -0.18378346 | -0.441294651 |
| ## 34 | -0.310262311 | -0.371882840 | 1.333146728  | -0.18378346 | -0.672980848 |
| ## 35 | -0.310262311 | 2.348854031  | -0.354748556 | -0.18378346 | 0.210859088  |
| ## 36 | -0.310262311 | -0.371882840 | -0.725969511 | -0.18378346 | -0.672980848 |
| ## 37 | -0.310262311 | -0.371882840 | -0.209740370 | -0.18378346 | -0.672980848 |
| ## 38 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 39 | 3.674318499  | 1.077852865  | 0.532701542  | -0.18378346 | 0.262344910  |
| ## 40 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.021443813  |
| ## 41 | -0.310262311 | -0.371882840 | 6.298227014  | -0.18378346 | -0.672980848 |
| ## 42 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 43 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 44 | -0.310262311 | -0.371882840 | -0.430152812 | -0.18378346 | 2.416168445  |
| ## 45 | -0.310262311 | 1.057993471  | -0.615763290 | 0.16342237  | -0.303999127 |
| ## 46 | -0.310262311 | -0.371882840 | 0.242685170  | -0.18378346 | -0.672980848 |
| ## 47 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 48 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 49 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 50 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 51 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | -0.063731960 |
| ## 52 | -0.310262311 | -0.371882840 | 1.831974888  | -0.18378346 | 0.699974393  |
| ## 53 | -0.310262311 | 1.018274685  | -0.708568529 | 0.16342237  | 0.047820653  |
| ## 54 | 1.126799620  | -0.371882840 | 0.979326755  | -0.18378346 | -0.672980848 |
| ## 55 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 56 | -0.310262311 | 1.256587404  | 1.211339852  | -0.18378346 | 0.391059464  |
| ## 57 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 58 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 59 | -0.310262311 | -0.371882840 | -0.447553795 | -0.18378346 | -0.672980848 |
| ## 60 | -0.310262311 | -0.371882840 | -0.383750193 | -0.18378346 | 1.008889322  |
| ## 61 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 62 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 63 | -0.310262311 | -0.371882840 | -0.180738732 | -0.18378346 | 0.468288196  |
| ## 64 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 65 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 66 | -0.310262311 | -0.371882840 | -0.754971149 | -0.18378346 | -0.381227860 |
| ## 67 | -0.310262311 | -0.371882840 | 0.074475675  | -0.18378346 | -0.672980848 |
| ## 68 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 69 | -0.310262311 | -0.371882840 | -0.064732184 | -0.18378346 | 0.639907601  |
| ## 70 | -0.310262311 | -0.371882840 | -0.227141352 | -0.18378346 | -0.672980848 |
| ## 71 | 1.780009589  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 72 | -0.310262311 | -0.371882840 | -0.441753467 | -0.18378346 | 0.082144534  |
| ## 73 | -0.310262311 | 0.859399539  | -0.227141352 | -0.18378346 | -0.406970770 |
| ## 74 | -0.310262311 | -0.371882840 | 1.460753932  | -0.18378346 | -0.672980848 |
| ## 75 | -0.310262311 | -0.371882840 | 4.018698331  | -0.18378346 | -0.672980848 |
| ## 76 | 1.257441614  | -0.252726481 | 1.681166375  | 0.41142654  | 0.262344910  |
| ## 77 | -0.310262311 | -0.371882840 | 0.706711365  | -0.18378346 | -0.672980848 |
| ## 78 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 79  | -0.310262311 | -0.371882840 | 2.939837428  | -0.18378346 | 1.884148289  |
| ## 80  | -0.310262311 | 2.626885536  | 0.219483861  | -0.18378346 | 0.622745661  |
| ## 81  | -0.310262311 | -0.371882840 | 0.805316932  | -0.18378346 | 0.622745661  |
| ## 82  | -0.310262311 | -0.371882840 | 0.236884843  | -0.18378346 | -0.672980848 |
| ## 83  | -0.310262311 | -0.371882840 | -0.192339387 | -0.18378346 | 3.840609507  |
| ## 84  | -0.310262311 | -0.073991942 | -0.778172458 | -0.18378346 | 0.245182969  |
| ## 85  | -0.310262311 | 0.382774102  | 1.066331666  | -0.18378346 | 0.322411702  |
| ## 86  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 87  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 88  | -0.310262311 | -0.371882840 | 0.434095976  | -0.18378346 | -0.672980848 |
| ## 89  | 0.016342673  | -0.371882840 | -0.865177370 | -0.18378346 | -0.612914057 |
| ## 90  | -0.310262311 | -0.371882840 | 0.115077967  | -0.18378346 | 0.905917679  |
| ## 91  | -0.310262311 | 3.222667332  | -0.952182281 | -0.18378346 | 2.055767694  |
| ## 92  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 93  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 94  | -0.310262311 | -0.371882840 | 1.582560808  | -0.18378346 | -0.672980848 |
| ## 95  | -0.310262311 | -0.371882840 | 1.193938870  | -0.18378346 | 5.676937143  |
| ## 96  | 2.150161905  | -0.371882840 | 1.715968339  | -0.18378346 | 1.051794174  |
| ## 97  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 98  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 99  | 2.868692871  | 3.699292769  | 0.149879931  | -0.18378346 | 0.202278118  |
| ## 100 | -0.310262311 | -0.371882840 | 2.406207304  | -0.18378346 | -0.672980848 |
| ## 101 | -0.310262311 | 0.005445631  | 0.416694993  | -0.18378346 | 0.339573642  |
| ## 102 | -0.310262311 | -0.054132549 | 0.219483861  | 0.63463029  | 0.047820653  |
| ## 103 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | 2.622111731  |
| ## 104 | -0.310262311 | -0.371882840 | 0.915523153  | -0.18378346 | -0.672980848 |
| ## 105 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | -0.672980848 |
| ## 106 | -0.310262311 | -0.371882840 | 1.257742472  | 0.38662612  | 0.348154612  |
| ## 107 | 0.582457980  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 108 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 109 | 1.388083608  | -0.371882840 | -0.041530874 | -0.18378346 | 1.352128133  |
| ## 110 | -0.310262311 | 0.720383787  | 0.990927410  | -0.18378346 | 0.279506850  |
| ## 111 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | -0.672980848 |
| ## 112 | -0.310262311 | -0.371882840 | 0.857519879  | -0.18378346 | -0.672980848 |
| ## 113 | -0.310262311 | 5.645513305  | 0.805316932  | -0.18378346 | 1.927053140  |
| ## 114 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 115 | 3.870281490  | 0.462211675  | 0.909722826  | -0.18378346 | 0.605583720  |
| ## 116 | -0.310262311 | 3.997183668  | 0.091876657  | -0.18378346 | 1.738271794  |
| ## 117 | -0.310262311 | -0.371882840 | 0.996727737  | -0.18378346 | -0.672980848 |
| ## 118 | -0.310262311 | 0.223898956  | 0.648708091  | -0.18378346 | -0.149541663 |
| ## 119 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 120 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 121 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 122 | -0.310262311 | -0.371882840 | 1.681166375  | -0.18378346 | -0.672980848 |
| ## 123 | -0.310262311 | -0.371882840 | 0.439896303  | -0.18378346 | -0.672980848 |
| ## 124 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 125 | -0.310262311 | 3.361683085  | 0.138279277  | -0.18378346 | 0.940241560  |
| ## 126 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 127 | -0.310262311 | -0.034273156 | -0.644764927 | -0.18378346 | -0.527104354 |
| ## 128 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 129 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 130 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 131 | -0.310262311 | 2.646744929  | 0.225284188  | -0.18378346 | 0.631326631  |
| ## 132 | -0.310262311 | -0.371882840 | -0.638964600 | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 133 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 134 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 135 | -0.310262311 | -0.371882840 | -0.221341024 | -0.18378346 | -0.672980848 |
| ## 136 | -0.114299321 | -0.371882840 | 1.222940507  | 0.03942029  | 0.253763939  |
| ## 137 | -0.310262311 | -0.371882840 | -0.598362308 | -0.18378346 | -0.672980848 |
| ## 138 | -0.310262311 | -0.371882840 | 2.098789950  | -0.18378346 | 0.451126255  |
| ## 139 | -0.310262311 | -0.371882840 | 1.657965065  | -0.18378346 | -0.672980848 |
| ## 140 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 141 | 0.843741967  | -0.371882840 | 1.541958516  | -0.18378346 | 0.245182969  |
| ## 142 | -0.310262311 | -0.371882840 | -0.174938405 | 1.47784445  | 0.476869166  |
| ## 143 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 144 | -0.310262311 | 3.222667332  | 1.153336578  | -0.18378346 | 1.661043062  |
| ## 145 | -0.005430993 | -0.371882840 | -0.812974423 | -0.08458179 | -0.432713681 |
| ## 146 | -0.310262311 | 0.263617743  | -0.580961326 | -0.18378346 | -0.398389800 |
| ## 147 | 1.083252289  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 148 | -0.310262311 | -0.193148301 | -0.841976060 | -0.18378346 | -0.595752116 |
| ## 149 | -0.310262311 | -0.371882840 | 0.474698268  | -0.18378346 | -0.672980848 |
| ## 150 | -0.310262311 | -0.371882840 | 0.202082878  | -0.18378346 | 2.201644188  |
| ## 151 | 0.560684314  | 0.422492888  | 0.834318569  | 0.21302321  | 0.459707226  |
| ## 152 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | 1.008889322  |
| ## 153 | 1.845330586  | -0.371882840 | 1.066331666  | -0.18378346 | 1.034632233  |
| ## 154 | 0.255852995  | -0.371882840 | 0.062875020  | -0.18378346 | 0.305249761  |
| ## 155 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 156 | 1.997746246  | -0.371882840 | 2.121991260  | 6.80993400  | 1.746852764  |
| ## 157 | -0.310262311 | -0.371882840 | 0.637107436  | -0.18378346 | 0.365316553  |
| ## 158 | -0.310262311 | -0.371882840 | 2.626619747  | -0.18378346 | 1.437937835  |
| ## 159 | -0.310262311 | 0.164320777  | -0.157537423 | -0.18378346 | 0.262344910  |
| ## 160 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 161 | -0.310262311 | 0.124601990  | 1.750770304  | -0.18378346 | 0.356735583  |
| ## 162 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 163 | 0.103437336  | 3.838308522  | 0.277487135  | 2.66826444  | 0.313830731  |
| ## 164 | -0.310262311 | -0.371882840 | 0.236884843  | -0.18378346 | -0.672980848 |
| ## 165 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 166 | 0.604231645  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 167 | -0.310262311 | -0.371882840 | 0.080276002  | -0.18378346 | -0.672980848 |
| ## 168 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 169 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 170 | -0.310262311 | 1.554478302  | 2.423608286  | -0.18378346 | 0.159373267  |
| ## 171 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.527104354 |
| ## 172 | -0.310262311 | 0.382774102  | -0.731769839 | 6.43792775  | -0.672980848 |
| ## 173 | -0.310262311 | -0.371882840 | -0.244542334 | -0.18378346 | -0.672980848 |
| ## 174 | -0.310262311 | -0.113710728 | 0.584904489  | -0.18378346 | -0.338323008 |
| ## 175 | -0.310262311 | -0.371882840 | 0.648708091  | -0.18378346 | 1.695366943  |
| ## 176 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 177 | -0.310262311 | 0.978555898  | 1.414351312  | -0.18378346 | -0.089474871 |
| ## 178 | -0.310262311 | 0.482071068  | -0.702768202 | -0.18378346 | -0.672980848 |
| ## 179 | 4.523491459  | -0.371882840 | 2.052387330  | -0.18378346 | 1.231994549  |
| ## 180 | -0.310262311 | -0.371882840 | 0.532701542  | 0.78343279  | 0.511193047  |
| ## 181 | -0.310262311 | 3.599995803  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 182 | 0.473589651  | 0.343055316  | -0.099534148 | -0.18378346 | -0.364065919 |
| ## 183 | -0.310262311 | -0.371882840 | 0.532701542  | 0.78343279  | 0.511193047  |
| ## 184 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 185 | -0.310262311 | 1.117571651  | -0.865177370 | 0.18822279  | -0.158122633 |
| ## 186 | -0.310262311 | -0.371882840 | 0.393493684  | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 187 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 188 | -0.310262311 | -0.371882840 | 3.264655765  | -0.18378346 | 0.880174768  |
| ## 189 | 0.669552642  | -0.153429515 | 1.095333303  | -0.18378346 | 0.399640434  |
| ## 190 | -0.310262311 | -0.371882840 | 1.623163100  | -0.18378346 | -0.672980848 |
| ## 191 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 192 | -0.310262311 | -0.371882840 | -0.337347573 | -0.18378346 | -0.672980848 |
| ## 193 | -0.310262311 | -0.371882840 | -0.853576715 | -0.18378346 | -0.672980848 |
| ## 194 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | -0.672980848 |
| ## 195 | -0.310262311 | -0.371882840 | 2.208996171  | -0.18378346 | 2.441911355  |
| ## 196 | -0.310262311 | 0.680665000  | 0.283287462  | -0.18378346 | -0.218189425 |
| ## 197 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 198 | 0.234079329  | -0.133570122 | -0.354748556 | -0.18378346 | -0.346903979 |
| ## 199 | -0.310262311 | -0.371882840 | -0.737570166 | -0.18378346 | -0.355484949 |
| ## 200 | -0.310262311 | 0.184180170  | 0.445696631  | -0.18378346 | -0.552847265 |
| ## 201 | -0.310262311 | -0.371882840 | -0.360548883 | -0.18378346 | -0.672980848 |
| ## 202 | -0.310262311 | 0.243758349  | 1.791372596  | -0.18378346 | -0.132379722 |
| ## 203 | -0.310262311 | -0.371882840 | 1.489755569  | -0.18378346 | 1.129022906  |
| ## 204 | -0.310262311 | 0.501930461  | 0.068675347  | -0.18378346 | 1.214832608  |
| ## 205 | 0.059890004  | 1.018274685  | -0.447553795 | -0.18378346 | -0.072312930 |
| ## 206 | -0.310262311 | -0.371882840 | 1.089532976  | -0.18378346 | -0.672980848 |
| ## 207 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 208 | 1.083252289  | -0.272585874 | 1.489755569  | 0.38662612  | 0.279506850  |
| ## 209 | -0.310262311 | -0.371882840 | 0.631307109  | -0.18378346 | 1.669624032  |
| ## 210 | -0.310262311 | 1.514759515  | 0.149879931  | -0.18378346 | 0.545516928  |
| ## 211 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 212 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 213 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.511193047  |
| ## 214 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.047186723  |
| ## 215 | -0.310262311 | -0.371882840 | 0.515300560  | -0.18378346 | -0.672980848 |
| ## 216 | -0.310262311 | -0.371882840 | -0.134336113 | -0.18378346 | -0.672980848 |
| ## 217 | -0.310262311 | 6.717920538  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 218 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 219 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.295418157 |
| ## 220 | -0.310262311 | 2.328994637  | 1.031529702  | -0.18378346 | 1.669624032  |
| ## 221 | 0.843741967  | 0.680665000  | 3.055843977  | -0.18378346 | 0.691393423  |
| ## 222 | -0.310262311 | 0.303336529  | 0.033873383  | -0.18378346 | -0.672980848 |
| ## 223 | -0.310262311 | 2.189978885  | -0.012529237 | -0.18378346 | 0.159373267  |
| ## 224 | 0.386494989  | -0.371882840 | 0.370292374  | -0.18378346 | 2.115834486  |
| ## 225 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 226 | -0.310262311 | -0.371882840 | 0.979326755  | -0.18378346 | -0.672980848 |
| ## 227 | -0.310262311 | -0.371882840 | 1.808773578  | -0.18378346 | -0.672980848 |
| ## 228 | -0.310262311 | -0.371882840 | -0.731769839 | -0.18378346 | -0.672980848 |
| ## 229 | -0.310262311 | -0.371882840 | -0.198139715 | -0.18378346 | 0.167954237  |
| ## 230 | 0.168758332  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 231 | -0.310262311 | -0.371882840 | -0.111134803 | -0.18378346 | -0.672980848 |
| ## 232 | 0.342947658  | -0.371882840 | 0.358691719  | -0.18378346 | 0.099306475  |
| ## 233 | 0.647778976  | -0.371882840 | 0.915523153  | -0.18378346 | 0.588421780  |
| ## 234 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 235 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 236 | -0.310262311 | -0.371882840 | 0.254285825  | -0.18378346 | 1.558071419  |
| ## 237 | -0.310262311 | -0.371882840 | 0.213683533  | -0.18378346 | -0.243932335 |
| ## 238 | -0.310262311 | 0.859399539  | -0.714368857 | -0.18378346 | -0.672980848 |
| ## 239 | -0.310262311 | 0.263617743  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 240 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | -0.003665168 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 241 | -0.310262311 | -0.272585874 | -0.824575078 | -0.18378346 | -0.535685324 |
| ## 242 | 0.626005311  | -0.312304661 | 0.805316932  | -0.18378346 | 0.485450136  |
| ## 243 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 8.517238298  |
| ## 244 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 1.369290073  |
| ## 245 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 246 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 247 | -0.310262311 | 6.022841776  | 0.915523153  | -0.18378346 | -0.672980848 |
| ## 248 | 1.431630939  | 1.216868617  | -0.024129892 | -0.18378346 | 0.699974393  |
| ## 249 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | 1.008889322  |
| ## 250 | -0.310262311 | -0.371882840 | -0.441753467 | -0.18378346 | -0.672980848 |
| ## 251 | -0.310262311 | 0.223898956  | 0.648708091  | -0.18378346 | -0.149541663 |
| ## 252 | -0.310262311 | -0.371882840 | -0.163337750 | -0.18378346 | -0.672980848 |
| ## 253 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 254 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 255 | -0.310262311 | 0.918977719  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 256 | 0.125211001  | -0.371882840 | 0.260086153  | -0.18378346 | -0.140960692 |
| ## 257 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.047186723  |
| ## 258 | -0.048978324 | 3.679433376  | 0.671909401  | 0.11382154  | 0.416802374  |
| ## 259 | -0.070751989 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 260 | 0.125211001  | 2.507729176  | 0.254285825  | 0.31222487  | 0.399640434  |
| ## 261 | -0.005430993 | -0.093851335 | -0.366349210 | -0.18378346 | 0.562678869  |
| ## 262 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 263 | -0.310262311 | 1.415462549  | 1.135935596  | -0.18378346 | -0.672980848 |
| ## 264 | -0.310262311 | -0.371882840 | 1.460753932  | -0.18378346 | -0.672980848 |
| ## 265 | -0.310262311 | 2.706323108  | 0.393493684  | -0.18378346 | -0.672980848 |
| ## 266 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 267 | 0.016342673  | -0.371882840 | -0.865177370 | -0.18378346 | -0.612914057 |
| ## 268 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 269 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 270 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 271 | 0.865515633  | -0.371882840 | -0.006728909 | -0.18378346 | -0.672980848 |
| ## 272 | 0.277626661  | -0.371882840 | -0.482355759 | -0.18378346 | -0.209608454 |
| ## 273 | -0.310262311 | -0.371882840 | 1.547758843  | -0.18378346 | 0.554097899  |
| ## 274 | -0.310262311 | -0.371882840 | -0.111134803 | -0.18378346 | 0.571259839  |
| ## 275 | -0.310262311 | -0.093851335 | 0.410894666  | 0.16342237  | 0.202278118  |
| ## 276 | -0.310262311 | -0.371882840 | 0.613906126  | -0.18378346 | 0.099306475  |
| ## 277 | 1.344536277  | 2.150260098  | 0.231084516  | -0.18378346 | -0.020827109 |
| ## 278 | -0.310262311 | 1.653775268  | 0.236884843  | -0.18378346 | 1.309223281  |
| ## 279 | 0.364721323  | 0.243758349  | 0.648708091  | -0.18378346 | 0.605583720  |
| ## 280 | -0.310262311 | -0.371882840 | 0.306488772  | -0.18378346 | -0.672980848 |
| ## 281 | -0.310262311 | -0.371882840 | 1.623163100  | -0.18378346 | -0.672980848 |
| ## 282 | 1.562272933  | -0.371882840 | 1.060531339  | -0.18378346 | 0.811527006  |
| ## 283 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.322411702  |
| ## 284 | -0.310262311 | -0.371882840 | 2.266999446  | -0.18378346 | -0.672980848 |
| ## 285 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 286 | 1.518725602  | -0.371882840 | -0.464954777 | -0.18378346 | 1.506585597  |
| ## 287 | -0.310262311 | -0.371882840 | -0.609962963 | -0.18378346 | 1.892729259  |
| ## 288 | -0.310262311 | -0.371882840 | -0.389550520 | 1.00663653  | 1.000308352  |
| ## 289 | -0.310262311 | -0.371882840 | -0.261943317 | -0.18378346 | -0.672980848 |
| ## 290 | -0.310262311 | -0.371882840 | 0.979326755  | -0.18378346 | 2.184482248  |
| ## 291 | -0.310262311 | -0.371882840 | 0.573303834  | -0.18378346 | 1.583814330  |
| ## 292 | -0.310262311 | -0.371882840 | 1.582560808  | -0.18378346 | -0.140960692 |
| ## 293 | -0.310262311 | -0.371882840 | 0.213683533  | -0.18378346 | 2.227387099  |
| ## 294 | -0.310262311 | 0.501930461  | -0.952182281 | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 295 | -0.310262311 | -0.371882840 | 0.689310383  | -0.18378346 | -0.672980848 |
| ## 296 | -0.310262311 | 3.361683085  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 297 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 298 | -0.310262311 | 0.462211675  | -0.708568529 | -0.18378346 | -0.123798752 |
| ## 299 | -0.092525655 | 0.382774102  | -0.911579989 | 0.31222487  | -0.527104354 |
| ## 300 | -0.310262311 | -0.014413762 | 0.892321843  | -0.18378346 | 0.125049386  |
| ## 301 | -0.310262311 | -0.371882840 | 0.347091064  | -0.18378346 | -0.672980848 |
| ## 302 | -0.310262311 | -0.371882840 | -0.354748556 | -0.18378346 | -0.672980848 |
| ## 303 | -0.310262311 | -0.371882840 | 0.515300560  | -0.18378346 | 0.193697148  |
| ## 304 | -0.310262311 | 6.459748427  | -0.952182281 | -0.18378346 | 2.278872920  |
| ## 305 | -0.310262311 | 1.117571651  | -0.076332839 | -0.18378346 | -0.286837187 |
| ## 306 | 0.255852995  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 307 | -0.310262311 | -0.371882840 | 0.068675347  | -0.18378346 | 0.270925880  |
| ## 308 | -0.310262311 | -0.371882840 | 0.979326755  | -0.18378346 | -0.672980848 |
| ## 309 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 310 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | -0.672980848 |
| ## 311 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | -0.063731960 |
| ## 312 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 313 | -0.310262311 | -0.371882840 | -0.725969511 | -0.18378346 | -0.338323008 |
| ## 314 | -0.310262311 | -0.371882840 | 1.623163100  | -0.18378346 | -0.672980848 |
| ## 315 | -0.310262311 | 0.819680753  | 1.164937233  | -0.18378346 | 0.365316553  |
| ## 316 | -0.310262311 | -0.371882840 | -0.691167547 | -0.18378346 | -0.484199503 |
| ## 317 | -0.310262311 | 0.263617743  | 0.422495321  | -0.18378346 | 0.373897523  |
| ## 318 | -0.310262311 | -0.371882840 | 0.497899578  | -0.18378346 | 1.472261716  |
| ## 319 | 0.321173992  | -0.371882840 | -0.952182281 | -0.18378346 | 0.828688947  |
| ## 320 | -0.310262311 | -0.371882840 | 0.068675347  | -0.18378346 | -0.672980848 |
| ## 321 | -0.310262311 | -0.371882840 | -0.818774750 | -0.18378346 | -0.672980848 |
| ## 322 | -0.310262311 | -0.371882840 | 0.173081241  | -0.18378346 | -0.672980848 |
| ## 323 | -0.310262311 | -0.371882840 | -0.435953140 | -0.18378346 | 2.390425534  |
| ## 324 | -0.136072986 | 1.475040729  | -0.018329564 | 0.23782362  | -0.312580098 |
| ## 325 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 326 | 0.713099973  | -0.371882840 | 1.530357861  | -0.18378346 | 0.142211326  |
| ## 327 | -0.310262311 | -0.371882840 | -0.749170821 | -0.18378346 | 0.236601999  |
| ## 328 | -0.310262311 | -0.371882840 | 0.805316932  | -0.18378346 | -0.672980848 |
| ## 329 | -0.310262311 | -0.371882840 | -0.180738732 | -0.18378346 | 0.468288196  |
| ## 330 | 1.954198914  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 331 | 0.103437336  | -0.371882840 | 0.503699905  | -0.18378346 | 0.485450136  |
| ## 332 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 333 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 334 | -0.310262311 | 0.541649248  | -0.151737095 | -0.18378346 | -0.278256217 |
| ## 335 | 0.342947658  | -0.371882840 | -0.424352485 | -0.18378346 | -0.415551741 |
| ## 336 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 337 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 338 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 339 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 340 | 0.386494989  | -0.371882840 | 0.370292374  | -0.18378346 | 2.115834486  |
| ## 341 | -0.310262311 | -0.113710728 | 0.869120533  | 0.46102737  | 0.562678869  |
| ## 342 | 1.649367596  | -0.133570122 | 0.167280914  | -0.18378346 | -0.235351365 |
| ## 343 | -0.310262311 | -0.371882840 | 0.254285825  | -0.18378346 | 0.219440058  |
| ## 344 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | 0.133630356  |
| ## 345 | 0.125211001  | 2.805620075  | 0.323889754  | 0.31222487  | 0.185116177  |
| ## 346 | -0.310262311 | 0.283477136  | -0.169138078 | -0.18378346 | -0.098055841 |
| ## 347 | -0.310262311 | -0.272585874 | -0.836175733 | -0.18378346 | -0.544266295 |
| ## 348 | 0.473589651  | 0.343055316  | 0.323889754  | 5.27230817  | 1.214832608  |



```

## 349 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 350 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 351 3.804960493 -0.371882840 -0.847776388 -0.18378346 -0.672980848
## 352 1.518725602 -0.371882840 0.022272728 -0.18378346 -0.672980848
## 353 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 354 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 355 -0.310262311 3.937605488 -0.952182281 -0.18378346 -0.672980848
## 356 -0.310262311 6.022841776 0.915523153 -0.18378346 -0.672980848
## 357 0.408268654 -0.054132549 0.718312020 -0.18378346 1.360709103
## 358 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 359 -0.310262311 -0.371882840 -0.047331201 -0.18378346 1.008889322
## 360 -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.218189425
## 361 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 362 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 363 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.472261716
## 364 -0.310262311 -0.371882840 1.367948693 -0.18378346 -0.672980848
## 365 -0.310262311 1.097712258 -0.087933493 -0.18378346 -0.672980848
## 366 -0.310262311 -0.371882840 0.028073055 -0.18378346 -0.672980848
## 367 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 368 -0.310262311 -0.371882840 -0.952182281 3.78428318 -0.672980848
## 369 -0.310262311 -0.371882840 -0.691167547 -0.18378346 -0.484199503
## 370 1.279215280 -0.371882840 -0.604162635 -0.18378346 -0.261094276
## 371 -0.310262311 0.541649248 0.619706454 -0.18378346 0.125049386
## 372 -0.310262311 3.739011556 -0.354748556 -0.18378346 0.210859088
## 373 -0.310262311 -0.371882840 -0.302545609 -0.18378346 -0.672980848
## 374 -0.310262311 -0.133570122 -0.882578352 -0.18378346 -0.570009205
## 375 -0.310262311 -0.371882840 -0.366349210 -0.18378346 -0.389808830
## 376 -0.310262311 -0.371882840 -0.876778025 -0.18378346 -0.672980848
## 377 -0.310262311 -0.371882840 0.671909401 -0.18378346 -0.672980848
## 378 0.168758332 -0.371882840 -0.952182281 -0.18378346 -0.098055841
## 379 0.495363317 -0.371882840 0.468897940 -0.18378346 0.133630356
## 380 -0.310262311 -0.371882840 0.613906126 -0.18378346 -0.672980848
## 381 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 382 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 383 10.707212499 -0.371882840 0.515300560 2.94106902 2.579206880
## 384 9.487887223 -0.371882840 2.179994534 -0.18378346 0.099306475
## 385 -0.310262311 -0.371882840 -0.615763290 -0.18378346 0.322411702
## 386 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 387 -0.310262311 -0.371882840 0.451496958 -0.18378346 -0.672980848
## 388 0.865515633 -0.371882840 1.553559171 -0.18378346 0.253763939
## 389 1.039704958 -0.371882840 -0.592561980 -0.18378346 -0.672980848
## 390 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848
## 391 0.386494989 -0.371882840 0.364492047 -0.18378346 2.107253515
## 392 0.821968301 -0.371882840 1.391150003 -0.18378346 1.592395300
## 393 2.759824543 0.561508641 -0.406951502 4.50349526 2.158739337
## 394 -0.310262311 0.462211675 1.483955242 -0.18378346 -0.672980848
## 395 -0.310262311 7.889624738 1.460753932 -0.18378346 0.511193047
## 396 -0.310262311 -0.371882840 1.275143454 -0.18378346 2.622111731
## 397 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 398 -0.310262311 0.938837112 -0.569360671 -0.18378346 -0.106636811
## 399 0.517136983 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 400 -0.310262311 -0.371882840 -0.836175733 -0.18378346 -0.621495027
## 401 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 402 -0.201393983 -0.312304661 -0.876778025 -0.18378346 -0.544266295

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 403 | -0.310262311 | -0.371882840 | 0.764714640  | -0.18378346 | -0.672980848 |
| ## 404 | -0.310262311 | 0.879258932  | -0.401151175 | -0.18378346 | -0.269675246 |
| ## 405 | -0.310262311 | 0.720383787  | 0.967726100  | -0.18378346 | 0.270925880  |
| ## 406 | -0.136072986 | -0.213007695 | 1.037330029  | -0.18378346 | -0.012246139 |
| ## 407 | -0.310262311 | -0.371882840 | 0.161480586  | -0.18378346 | -0.672980848 |
| ## 408 | -0.310262311 | 2.189978885  | 1.054731011  | -0.18378346 | 0.811527006  |
| ## 409 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.777203125  |
| ## 410 | -0.310262311 | -0.371882840 | -0.522958051 | -0.18378346 | -0.672980848 |
| ## 411 | -0.310262311 | -0.371882840 | -0.209740370 | -0.18378346 | 4.827421087  |
| ## 412 | -0.310262311 | -0.371882840 | -0.754971149 | 2.34585903  | -0.089474871 |
| ## 413 | -0.310262311 | -0.371882840 | 0.805316932  | -0.18378346 | 0.622745661  |
| ## 414 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 415 | -0.310262311 | -0.371882840 | -0.482355759 | -0.18378346 | 0.725717304  |
| ## 416 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 417 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 418 | -0.310262311 | 1.435321942  | 0.109277639  | -0.18378346 | -0.672980848 |
| ## 419 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 420 | -0.310262311 | -0.371882840 | 2.528014180  | -0.18378346 | 0.536935958  |
| ## 421 | -0.310262311 | -0.371882840 | 0.776315294  | -0.18378346 | -0.672980848 |
| ## 422 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 423 | -0.310262311 | -0.371882840 | -0.232941679 | -0.18378346 | -0.140960692 |
| ## 424 | -0.310262311 | -0.371882840 | -0.760771476 | -0.18378346 | -0.672980848 |
| ## 425 | -0.310262311 | -0.371882840 | -0.598362308 | -0.18378346 | -0.672980848 |
| ## 426 | -0.136072986 | 2.547447963  | 0.457297286  | 0.23782362  | 0.219440058  |
| ## 427 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 428 | 2.367898561  | -0.371882840 | -0.238742007 | 4.10668860  | 1.446518805  |
| ## 429 | -0.310262311 | -0.371882840 | -0.250342662 | -0.18378346 | 0.365316553  |
| ## 430 | 1.170346952  | -0.371882840 | -0.557760016 | -0.18378346 | -0.672980848 |
| ## 431 | 0.843741967  | -0.371882840 | -0.644764927 | -0.18378346 | -0.672980848 |
| ## 432 | -0.310262311 | -0.371882840 | -0.725969511 | -0.18378346 | -0.338323008 |
| ## 433 | -0.310262311 | 0.402633495  | 0.892321843  | -0.18378346 | -0.672980848 |
| ## 434 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 435 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 436 | 4.175112809  | 1.673634661  | 1.437552622  | -0.18378346 | -0.672980848 |
| ## 437 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 438 | -0.310262311 | -0.371882840 | -0.685367219 | -0.18378346 | -0.475618532 |
| ## 439 | -0.310262311 | -0.371882840 | 0.120878294  | -0.18378346 | 2.193063218  |
| ## 440 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.451126255  |
| ## 441 | -0.310262311 | 3.103510973  | 2.098789950  | -0.18378346 | 0.828688947  |
| ## 442 | -0.310262311 | 1.296306190  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 443 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 444 | -0.310262311 | -0.371882840 | 1.164937233  | -0.18378346 | 0.365316553  |
| ## 445 | -0.310262311 | 0.918977719  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 446 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 447 | 2.041293577  | -0.371882840 | 0.613906126  | -0.18378346 | -0.209608454 |
| ## 448 | -0.310262311 | -0.371882840 | 0.521100887  | 4.30509193  | -0.055150990 |
| ## 449 | -0.310262311 | -0.371882840 | 0.550102524  | -0.18378346 | -0.672980848 |
| ## 450 | -0.310262311 | -0.371882840 | 1.460753932  | -0.18378346 | -0.672980848 |
| ## 451 | 0.125211001  | -0.173288908 | 1.466554259  | -0.18378346 | 0.485450136  |
| ## 452 | -0.310262311 | -0.371882840 | 0.944524790  | -0.18378346 | -0.672980848 |
| ## 453 | -0.310262311 | -0.371882840 | 1.089532976  | -0.18378346 | 0.699974393  |
| ## 454 | 2.672729880  | 0.720383787  | 0.004871746  | 5.27230817  | 1.927053140  |
| ## 455 | 3.391260846  | -0.371882840 | -0.459154449 | -0.18378346 | 0.056401624  |
| ## 456 | -0.310262311 | 1.455181336  | 1.193938870  | -0.18378346 | 0.116468415  |

```

## 457 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 458 -0.114299321 0.740243180 0.625506781 -0.18378346 1.180508727
## 459 0.234079329 -0.371882840 0.677709728 -0.18378346 -0.458456592
## 460 -0.310262311 -0.371882840 -0.169138078 -0.18378346 -0.672980848
## 461 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 462 -0.114299321 -0.113710728 -0.934781299 -0.15898304 -0.612914057
## 463 -0.310262311 0.640946214 0.248485498 -0.18378346 0.657069542
## 464 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 465 -0.310262311 1.177149831 3.125447906 -0.18378346 1.334966192
## 466 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 467 -0.310262311 -0.371882840 -0.035730547 -0.18378346 -0.570009205
## 468 0.669552642 0.521789854 -0.424352485 -0.18378346 -0.286837187
## 469 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 470 -0.310262311 0.462211675 0.149879931 -0.18378346 -0.672980848
## 471 0.821968301 0.660805607 0.579104162 -0.18378346 1.592395300
## 472 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.295418157
## 473 -0.310262311 0.601227427 0.619706454 -0.18378346 0.382478493
## 474 -0.310262311 -0.371882840 2.406207304 -0.18378346 0.562678869
## 475 -0.310262311 -0.371882840 0.428295648 -0.18378346 1.369290073
## 476 0.843741967 -0.232867088 -0.911579989 -0.18378346 -0.647237938
## 477 -0.310262311 2.229697671 0.880721188 -0.18378346 0.004915802
## 478 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.492780473
## 479 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 480 -0.136072986 -0.371882840 0.648708091 0.88263445 0.657069542
## 481 0.495363317 -0.232867088 0.880721188 -0.18378346 0.536935958
## 482 -0.310262311 -0.371882840 1.118534613 -0.18378346 -0.672980848
## 483 1.170346952 0.978555898 0.625506781 -0.18378346 0.494031107
## 484 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 485 0.582457980 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 486 0.038116339 2.746041895 0.393493684 0.21302321 0.322411702
## 487 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 488 0.647778976 -0.371882840 1.762370959 -0.18378346 0.665650512
## 489 1.235667948 -0.371882840 1.251942144 -0.18378346 0.957403501
## 490 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 491 -0.310262311 0.382774102 0.387693356 -0.18378346 -0.012246139
## 492 -0.310262311 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 493 0.364721323 -0.371882840 0.526901215 -0.18378346 2.064348664
## 494 -0.310262311 -0.371882840 0.091876657 -0.18378346 3.591761370
## 495 -0.310262311 -0.371882840 -0.598362308 -0.18378346 -0.672980848
## 496 -0.310262311 2.130400705 -0.952182281 -0.18378346 -0.672980848
## 497 6.091195385 -0.371882840 -0.952182281 3.46187777 3.111227036
## 498 -0.310262311 2.328994637 1.031529702 -0.18378346 1.669624032
## 499 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 500 -0.310262311 -0.371882840 -0.389550520 -0.18378346 0.159373267
## 501 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.672980848
## 502 -0.310262311 -0.371882840 1.437552622 -0.18378346 0.210859088
## 503 0.604231645 -0.371882840 1.286744109 -0.18378346 0.425383345
## 504 1.388083608 -0.371882840 0.631307109 -0.18378346 0.330992672
## 505 -0.310262311 -0.371882840 -0.836175733 -0.18378346 -0.501361443
## 506 -0.310262311 -0.014413762 1.507156551 -0.18378346 0.485450136
## 507 0.059890004 -0.213007695 -0.256142989 -0.18378346 2.021443813
## 508 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 509 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 510 -0.310262311 -0.371882840 1.623163100 -0.18378346 3.136969946

```

```

## 511 -0.310262311 -0.371882840 0.573303834 -0.18378346 -0.029408079
## 512 -0.070751989 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 513 -0.310262311 -0.371882840 -0.435953140 -0.18378346 -0.672980848
## 514 -0.310262311 -0.371882840 1.164937233 -0.18378346 0.717136333
## 515 -0.310262311 -0.371882840 1.089532976 -0.18378346 0.699974393
## 516 -0.310262311 -0.371882840 -0.401151175 -0.18378346 -0.269675246
## 517 -0.310262311 2.110541312 0.503699905 -0.18378346 0.399640434
## 518 -0.310262311 0.084883204 0.294888117 -0.18378346 -0.372646889
## 519 -0.310262311 -0.332164054 -0.905779662 -0.18378346 -0.621495027
## 520 -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 521 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 522 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 523 -0.310262311 -0.371882840 0.874920861 -0.18378346 0.228021029
## 524 -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 525 -0.310262311 1.256587404 1.211339852 -0.18378346 0.391059464
## 526 0.386494989 -0.371882840 0.370292374 -0.18378346 2.115834486
## 527 -0.310262311 -0.371882840 -0.824575078 -0.18378346 -0.286837187
## 528 -0.310262311 0.025305024 -0.720169184 -0.18378346 -0.672980848
## 529 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 530 -0.310262311 1.197009224 -0.952182281 -0.18378346 -0.672980848
## 531 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 532 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 533 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 534 -0.310262311 -0.371882840 -0.760771476 -0.18378346 -0.535685324
## 535 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 536 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 537 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 538 -0.310262311 -0.371882840 -0.186539060 -0.18378346 -0.672980848
## 539 1.148573286 1.633915875 0.219483861 -0.18378346 -0.098055841
## 540 0.277626661 1.276446797 0.492099250 -0.18378346 1.935634110
## 541 -0.310262311 -0.371882840 0.532701542 -0.18378346 -0.672980848
## 542 -0.310262311 -0.371882840 -0.667966237 -0.18378346 -0.467037562
## 543 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 544 -0.048978324 -0.371882840 0.080276002 -0.18378346 -0.235351365
## 545 1.562272933 0.482071068 -0.203940042 -0.18378346 3.411560995
## 546 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.535685324
## 547 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 548 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 549 -0.005430993 -0.371882840 -0.812974423 -0.08458179 -0.432713681
## 550 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 551 -0.310262311 -0.371882840 -0.203940042 -0.18378346 3.780542716
## 552 -0.310262311 -0.371882840 -0.418552157 -0.18378346 0.116468415
## 553 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 554 -0.310262311 -0.371882840 2.179994534 -0.18378346 1.309223281
## 555 -0.310262311 -0.371882840 2.528014180 -0.18378346 0.536935958
## 556 -0.310262311 -0.371882840 -0.488156087 -0.18378346 0.013496772
## 557 7.811314970 -0.371882840 1.640564082 -0.18378346 -0.037989049
## 558 -0.310262311 -0.371882840 0.613906126 -0.18378346 -0.672980848
## 559 -0.310262311 -0.371882840 -0.731769839 1.70104820 -0.672980848
## 560 -0.310262311 -0.371882840 -0.702768202 -0.18378346 -0.672980848
## 561 -0.310262311 -0.371882840 0.532701542 5.42111067 1.137603876
## 562 -0.310262311 -0.371882840 0.979326755 -0.18378346 0.751460214
## 563 -0.310262311 -0.371882840 -0.696967874 -0.18378346 -0.578590176
## 564 -0.310262311 -0.371882840 0.979326755 -0.18378346 -0.672980848

```

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 565 | -0.027204658 | -0.371882840 | -0.267743644 | -0.18378346 | -0.672980848 |
| ## 566 | 0.734873639  | 0.581368034  | 1.576760481  | -0.18378346 | 0.571259839  |
| ## 567 | 2.912240202  | -0.371882840 | -0.093733821 | -0.18378346 | -0.037989049 |
| ## 568 | -0.310262311 | -0.371882840 | 0.318089427  | -0.18378346 | -0.235351365 |
| ## 569 | -0.310262311 | -0.371882840 | 0.196282551  | -0.18378346 | -0.672980848 |
| ## 570 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 571 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 572 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.047186723  |
| ## 573 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 574 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 575 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 576 | 0.234079329  | -0.371882840 | -0.859377042 | -0.18378346 | -0.672980848 |
| ## 577 | -0.310262311 | 1.832509807  | 1.628963428  | -0.18378346 | 0.039239683  |
| ## 578 | -0.310262311 | -0.371882840 | 0.236884843  | -0.18378346 | -0.235351365 |
| ## 579 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | 0.588421780  |
| ## 580 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.468288196  |
| ## 581 | -0.310262311 | -0.371882840 | -0.111134803 | -0.18378346 | -0.501361443 |
| ## 582 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 583 | -0.310262311 | -0.371882840 | 2.266999446  | -0.18378346 | 0.279506850  |
| ## 584 | -0.310262311 | -0.371882840 | -0.041530874 | -0.18378346 | 0.674231482  |
| ## 585 | -0.310262311 | -0.371882840 | -0.348948228 | -0.05978138 | 0.116468415  |
| ## 586 | 3.260618852  | -0.371882840 | -0.163337750 | -0.18378346 | -0.209608454 |
| ## 587 | -0.310262311 | 0.819680753  | 0.097676984  | -0.18378346 | 0.365316553  |
| ## 588 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 589 | -0.310262311 | -0.371882840 | 0.944524790  | -0.18378346 | 2.132996426  |
| ## 590 | -0.310262311 | 2.746041895  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 591 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 592 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 593 | 2.259030233  | -0.371882840 | -0.493956414 | 0.78343279  | -0.672980848 |
| ## 594 | -0.310262311 | -0.371882840 | 1.657965065  | -0.18378346 | -0.672980848 |
| ## 595 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 596 | -0.310262311 | -0.371882840 | 0.735713002  | -0.18378346 | 0.365316553  |
| ## 597 | -0.310262311 | -0.371882840 | 0.729912675  | -0.18378346 | -0.672980848 |
| ## 598 | -0.310262311 | 1.554478302  | -0.105334476 | -0.18378346 | 0.159373267  |
| ## 599 | -0.310262311 | -0.371882840 | -0.053131529 | -0.18378346 | 2.579206880  |
| ## 600 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 601 | 6.853273682  | -0.371882840 | 1.275143454  | -0.18378346 | 0.734298274  |
| ## 602 | 0.212305664  | -0.371882840 | 0.480498595  | -0.18378346 | -0.037989049 |
| ## 603 | -0.310262311 | -0.371882840 | -0.256142989 | -0.18378346 | -0.672980848 |
| ## 604 | -0.310262311 | 1.991384953  | 0.428295648  | -0.18378346 | 0.348154612  |
| ## 605 | -0.310262311 | 1.018274685  | 0.271686808  | -0.18378346 | 0.528354988  |
| ## 606 | -0.310262311 | 0.760102573  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 607 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 608 | -0.310262311 | -0.371882840 | -0.186539060 | -0.18378346 | 0.228021029  |
| ## 609 | -0.114299321 | -0.371882840 | -0.215540697 | -0.18378346 | 2.227387099  |
| ## 610 | -0.310262311 | -0.371882840 | -0.580961326 | -0.18378346 | -0.672980848 |
| ## 611 | -0.310262311 | -0.371882840 | 0.120878294  | -0.18378346 | 2.193063218  |
| ## 612 | 1.083252289  | -0.272585874 | 1.489755569  | 0.38662612  | 0.279506850  |
| ## 613 | 1.148573286  | 1.633915875  | 0.219483861  | -0.18378346 | -0.098055841 |
| ## 614 | -0.310262311 | -0.371882840 | -0.557760016 | -0.18378346 | -0.672980848 |
| ## 615 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.047186723  |
| ## 616 | 1.039704958  | -0.371882840 | -0.952182281 | -0.18378346 | -0.140960692 |
| ## 617 | 0.299400326  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 618 | -0.310262311 | -0.371882840 | 0.231084516  | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 619 | -0.310262311 | 0.501930461  | 0.068675347  | -0.18378346 | 1.214832608  |
| ## 620 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 621 | -0.310262311 | -0.371882840 | 1.721768667  | -0.18378346 | -0.672980848 |
| ## 622 | -0.310262311 | -0.371882840 | 1.483955242  | -0.18378346 | -0.672980848 |
| ## 623 | -0.310262311 | -0.371882840 | -0.766571803 | -0.18378346 | -0.672980848 |
| ## 624 | -0.310262311 | 0.263617743  | 0.474698268  | -0.18378346 | 0.305249761  |
| ## 625 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 626 | -0.310262311 | -0.371882840 | 0.550102524  | -0.18378346 | -0.672980848 |
| ## 627 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 628 | 1.213894283  | -0.371882840 | -0.140136440 | -0.18378346 | 0.528354988  |
| ## 629 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.425383345  |
| ## 630 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 631 | -0.310262311 | -0.371882840 | -0.180738732 | -0.18378346 | 0.468288196  |
| ## 632 | -0.310262311 | -0.371882840 | 1.460753932  | -0.18378346 | -0.672980848 |
| ## 633 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 634 | -0.310262311 | -0.371882840 | -0.325746918 | -0.18378346 | -0.303999127 |
| ## 635 | -0.048978324 | -0.371882840 | 0.080276002  | -0.18378346 | -0.235351365 |
| ## 636 | -0.310262311 | 2.229697671  | -0.952182281 | -0.18378346 | 2.707921433  |
| ## 637 | -0.310262311 | -0.371882840 | 3.879490473  | -0.18378346 | -0.672980848 |
| ## 638 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 639 | -0.310262311 | -0.371882840 | 0.115077967  | -0.18378346 | -0.149541663 |
| ## 640 | -0.310262311 | -0.371882840 | 2.296001083  | -0.18378346 | 2.759407255  |
| ## 641 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 642 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 643 | -0.310262311 | -0.371882840 | -0.203940042 | -0.18378346 | -0.123798752 |
| ## 644 | -0.310262311 | -0.133570122 | 0.016472400  | -0.03498096 | -0.072312930 |
| ## 645 | -0.310262311 | -0.371882840 | 1.414351312  | -0.18378346 | 0.202278118  |
| ## 646 | -0.310262311 | -0.371882840 | -0.557760016 | -0.18378346 | -0.381227860 |
| ## 647 | 0.364721323  | -0.371882840 | 1.228740835  | -0.18378346 | 0.399640434  |
| ## 648 | -0.310262311 | -0.371882840 | 0.178881569  | -0.18378346 | 3.926419210  |
| ## 649 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.365316553  |
| ## 650 | -0.310262311 | -0.371882840 | 3.264655765  | -0.18378346 | 0.880174768  |
| ## 651 | -0.310262311 | -0.371882840 | 0.289087790  | -0.18378346 | -0.063731960 |
| ## 652 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 653 | -0.310262311 | -0.371882840 | 0.196282551  | -0.18378346 | -0.672980848 |
| ## 654 | -0.310262311 | 2.170119492  | 0.782115622  | -0.18378346 | 1.154765817  |
| ## 655 | 1.780009589  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 656 | -0.310262311 | -0.371882840 | 0.231084516  | -0.18378346 | -0.672980848 |
| ## 657 | 1.671141261  | -0.371882840 | 0.642907763  | -0.18378346 | -0.672980848 |
| ## 658 | -0.310262311 | -0.153429515 | -0.482355759 | -0.18378346 | -0.278256217 |
| ## 659 | -0.310262311 | -0.371882840 | -0.522958051 | -0.18378346 | 0.597002750  |
| ## 660 | -0.310262311 | -0.371882840 | 1.808773578  | -0.18378346 | -0.672980848 |
| ## 661 | 0.626005311  | -0.312304661 | 0.805316932  | -0.18378346 | 0.485450136  |
| ## 662 | 0.321173992  | -0.371882840 | -0.952182281 | -0.18378346 | 0.828688947  |
| ## 663 | 2.759824543  | 0.561508641  | -0.406951502 | 4.50349526  | 2.158739337  |
| ## 664 | -0.310262311 | -0.371882840 | 2.771627932  | -0.18378346 | -0.672980848 |
| ## 665 | -0.310262311 | -0.371882840 | 0.422495321  | -0.18378346 | 0.193697148  |
| ## 666 | -0.310262311 | -0.371882840 | -0.430152812 | -0.18378346 | -0.672980848 |
| ## 667 | -0.310262311 | 1.057993471  | -0.615763290 | 0.16342237  | -0.303999127 |
| ## 668 | -0.310262311 | 0.879258932  | 0.892321843  | -0.18378346 | -0.132379722 |
| ## 669 | -0.310262311 | -0.371882840 | 1.292544436  | -0.18378346 | -0.123798752 |
| ## 670 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | -0.003665168 |
| ## 671 | -0.310262311 | -0.371882840 | 4.685735986  | -0.18378346 | 0.511193047  |
| ## 672 | -0.092525655 | 0.025305024  | 1.037330029  | 0.06422071  | 0.751460214  |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 673 | -0.310262311 | -0.371882840 | 2.098789950  | -0.18378346 | -0.672980848 |
| ## 674 | -0.310262311 | 1.057993471  | -0.702768202 | 0.16342237  | -0.175284573 |
| ## 675 | -0.310262311 | -0.371882840 | 0.306488772  | -0.18378346 | -0.672980848 |
| ## 676 | -0.310262311 | 0.700524393  | 0.927123808  | -0.18378346 | 0.253763939  |
| ## 677 | -0.310262311 | 0.720383787  | 0.990927410  | -0.18378346 | 0.279506850  |
| ## 678 | -0.310262311 | 1.336024976  | -0.853576715 | 0.23782362  | 0.064982594  |
| ## 679 | 0.974383961  | 0.561508641  | 0.909722826  | -0.18378346 | 0.751460214  |
| ## 680 | -0.310262311 | -0.371882840 | 1.889978162  | -0.18378346 | 0.373897523  |
| ## 681 | -0.310262311 | -0.371882840 | -0.441753467 | -0.18378346 | 0.082144534  |
| ## 682 | -0.310262311 | -0.371882840 | -0.650565255 | -0.18378346 | -0.449875622 |
| ## 683 | -0.310262311 | 0.204039563  | -0.099534148 | -0.18378346 | -0.424132711 |
| ## 684 | 7.811314970  | -0.371882840 | 1.640564082  | -0.18378346 | -0.037989049 |
| ## 685 | -0.310262311 | 0.501930461  | 0.068675347  | -0.18378346 | 1.214832608  |
| ## 686 | -0.310262311 | -0.371882840 | -0.592561980 | -0.18378346 | -0.140960692 |
| ## 687 | -0.310262311 | -0.371882840 | -0.111134803 | -0.18378346 | -0.672980848 |
| ## 688 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 689 | -0.310262311 | -0.371882840 | 0.045474038  | -0.18378346 | -0.672980848 |
| ## 690 | -0.310262311 | -0.371882840 | 4.685735986  | -0.18378346 | 0.511193047  |
| ## 691 | -0.310262311 | 0.124601990  | 0.741513330  | -0.18378346 | 1.832662467  |
| ## 692 | 1.649367596  | 1.415462549  | 0.097676984  | -0.18378346 | 1.661043062  |
| ## 693 | -0.310262311 | -0.371882840 | -0.372149538 | -0.18378346 | -0.389808830 |
| ## 694 | -0.310262311 | -0.371882840 | -0.192339387 | -0.18378346 | 3.840609507  |
| ## 695 | -0.310262311 | -0.371882840 | -0.372149538 | -0.18378346 | -0.029408079 |
| ## 696 | -0.310262311 | -0.371882840 | -0.087933493 | -0.18378346 | -0.672980848 |
| ## 697 | -0.310262311 | -0.371882840 | 0.080276002  | -0.18378346 | -0.672980848 |
| ## 698 | -0.310262311 | -0.371882840 | -0.580961326 | -0.18378346 | -0.672980848 |
| ## 699 | -0.310262311 | 4.712121823  | 0.747313657  | -0.18378346 | -0.364065919 |
| ## 700 | -0.310262311 | 0.144461383  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 701 | 3.565450171  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 702 | 0.408268654  | -0.371882840 | 0.196282551  | -0.18378346 | 2.158739337  |
| ## 703 | -0.310262311 | 0.819680753  | -0.604162635 | -0.18378346 | -0.158122633 |
| ## 704 | -0.310262311 | 1.375743763  | 1.344747383  | -0.18378346 | 1.969957991  |
| ## 705 | -0.310262311 | -0.371882840 | 1.193938870  | -0.18378346 | -0.672980848 |
| ## 706 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 707 | -0.310262311 | -0.371882840 | 1.222940507  | -0.18378346 | -0.672980848 |
| ## 708 | -0.310262311 | -0.371882840 | -0.058931856 | -0.18378346 | 0.210859088  |
| ## 709 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 710 | 0.190531998  | -0.153429515 | 1.478154914  | -0.18378346 | 0.622745661  |
| ## 711 | -0.310262311 | -0.371882840 | -0.041530874 | -0.18378346 | -0.672980848 |
| ## 712 | -0.310262311 | 1.395603156  | 0.347091064  | -0.18378346 | 0.476869166  |
| ## 713 | 1.126799620  | -0.371882840 | 0.399294011  | -0.18378346 | -0.389808830 |
| ## 714 | -0.310262311 | 0.819680753  | 0.097676984  | -0.18378346 | 0.365316553  |
| ## 715 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.552847265 |
| ## 716 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 717 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 718 | 0.103437336  | -0.371882840 | 0.010672073  | 9.98438731  | 0.751460214  |
| ## 719 | -0.310262311 | -0.371882840 | 3.746082942  | -0.18378346 | -0.672980848 |
| ## 720 | -0.310262311 | -0.371882840 | 1.193938870  | -0.18378346 | -0.672980848 |
| ## 721 | -0.310262311 | -0.371882840 | 0.103477312  | -0.18378346 | -0.672980848 |
| ## 722 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 723 | -0.310262311 | -0.371882840 | 1.077932321  | -0.18378346 | 0.322411702  |
| ## 724 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | -0.672980848 |
| ## 725 | -0.310262311 | -0.371882840 | 0.178881569  | -0.18378346 | 3.926419210  |
| ## 726 | -0.310262311 | -0.371882840 | -0.511357396 | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 727 | 1.780009589  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 728 | -0.310262311 | -0.371882840 | -0.615763290 | -0.18378346 | 0.322411702  |
| ## 729 | -0.310262311 | -0.371882840 | -0.343147901 | 3.08987152  | -0.449875622 |
| ## 730 | -0.310262311 | -0.371882840 | 0.161480586  | -0.18378346 | -0.123798752 |
| ## 731 | -0.310262311 | -0.371882840 | 2.406207304  | -0.18378346 | -0.672980848 |
| ## 732 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | -0.063731960 |
| ## 733 | -0.310262311 | -0.371882840 | 0.793716277  | -0.18378346 | -0.672980848 |
| ## 734 | -0.310262311 | -0.371882840 | 2.609218764  | -0.18378346 | -0.303999127 |
| ## 735 | -0.310262311 | -0.371882840 | 0.410894666  | -0.18378346 | 0.399640434  |
| ## 736 | -0.310262311 | 1.395603156  | 1.124334941  | -0.18378346 | 0.605583720  |
| ## 737 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | 0.588421780  |
| ## 738 | -0.310262311 | 2.607026142  | 1.518757206  | -0.18378346 | 3.197036738  |
| ## 739 | -0.310262311 | 1.336024976  | -0.453354122 | -0.18378346 | 1.540909478  |
| ## 740 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 741 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 742 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 743 | -0.310262311 | -0.093851335 | 0.410894666  | 0.16342237  | 0.202278118  |
| ## 744 | -0.310262311 | -0.371882840 | 0.886521516  | -0.18378346 | -0.672980848 |
| ## 745 | -0.310262311 | 0.263617743  | -0.383750193 | -0.18378346 | -0.398389800 |
| ## 746 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 747 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 748 | -0.310262311 | 3.361683085  | -0.134336113 | 0.98183612  | 0.536935958  |
| ## 749 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.672980848 |
| ## 750 | -0.310262311 | 1.733212841  | -0.024129892 | -0.18378346 | 0.236601999  |
| ## 751 | 0.408268654  | -0.332164054 | 0.921323480  | -0.18378346 | 0.579840809  |
| ## 752 | -0.310262311 | -0.371882840 | 0.950325118  | -0.18378346 | -0.115217782 |
| ## 753 | -0.310262311 | -0.371882840 | -0.667966237 | -0.18378346 | -0.672980848 |
| ## 754 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 755 | -0.310262311 | -0.371882840 | -0.163337750 | -0.18378346 | 4.020809883  |
| ## 756 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 757 | -0.310262311 | -0.371882840 | -0.488156087 | -0.18378346 | -0.672980848 |
| ## 758 | -0.310262311 | 3.679433376  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 759 | -0.310262311 | -0.371882840 | 0.497899578  | -0.18378346 | 0.399640434  |
| ## 760 | 0.212305664  | -0.371882840 | -0.673766565 | -0.18378346 | -0.261094276 |
| ## 761 | -0.310262311 | -0.371882840 | 0.886521516  | -0.18378346 | 2.047186723  |
| ## 762 | 0.386494989  | -0.371882840 | 0.364492047  | -0.18378346 | 2.107253515  |
| ## 763 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 764 | -0.310262311 | -0.371882840 | -0.488156087 | -0.18378346 | -0.672980848 |
| ## 765 | -0.310262311 | 0.263617743  | -0.580961326 | -0.18378346 | -0.398389800 |
| ## 766 | -0.310262311 | -0.371882840 | 1.536158189  | -0.18378346 | 1.592395300  |
| ## 767 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 768 | -0.310262311 | -0.371882840 | -0.331547246 | -0.18378346 | -0.672980848 |
| ## 769 | -0.310262311 | -0.371882840 | -0.058931856 | -0.18378346 | 0.210859088  |
| ## 770 | 0.952610295  | 0.204039563  | 0.561703179  | 6.28912525  | 1.815500527  |
| ## 771 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 772 | -0.310262311 | -0.371882840 | 1.582560808  | -0.18378346 | -0.672980848 |
| ## 773 | -0.310262311 | -0.371882840 | -0.580961326 | -0.18378346 | -0.672980848 |
| ## 774 | -0.310262311 | -0.371882840 | -0.343147901 | -0.18378346 | -0.226770395 |
| ## 775 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 776 | 0.430042320  | -0.371882840 | 0.103477312  | 0.23782362  | 0.442545285  |
| ## 777 | -0.310262311 | -0.371882840 | 2.266999446  | -0.18378346 | -0.672980848 |
| ## 778 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 779 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | -0.672980848 |
| ## 780 | -0.310262311 | -0.371882840 | 0.347091064  | -0.18378346 | 0.210859088  |



|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 781 | -0.310262311 | -0.371882840 | -0.203940042 | -0.18378346 | -0.672980848 |
| ## 782 | -0.310262311 | -0.371882840 | 0.654508418  | -0.18378346 | -0.672980848 |
| ## 783 | -0.310262311 | -0.371882840 | 0.196282551  | -0.18378346 | 0.176535207  |
| ## 784 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 785 | -0.310262311 | -0.371882840 | 2.127791587  | -0.18378346 | 0.236601999  |
| ## 786 | -0.310262311 | 0.640946214  | 0.086076330  | -0.18378346 | -0.012246139 |
| ## 787 | 1.584046599  | -0.371882840 | 0.567503507  | -0.18378346 | 0.451126255  |
| ## 788 | -0.310262311 | -0.371882840 | 1.043130357  | -0.18378346 | -0.672980848 |
| ## 789 | -0.310262311 | -0.371882840 | -0.685367219 | -0.18378346 | -0.672980848 |
| ## 790 | 1.279215280  | -0.371882840 | -0.319946591 | -0.18378346 | 0.579840809  |
| ## 791 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 792 | -0.310262311 | -0.371882840 | -0.215540697 | -0.18378346 | -0.020827109 |
| ## 793 | -0.310262311 | 0.462211675  | 1.483955242  | -0.18378346 | -0.672980848 |
| ## 794 | -0.310262311 | -0.371882840 | -0.870977697 | -0.18378346 | -0.672980848 |
| ## 795 | -0.310262311 | 0.243758349  | -0.952182281 | -0.18378346 | -0.406970770 |
| ## 796 | -0.310262311 | -0.371882840 | 1.576760481  | -0.18378346 | 0.991727382  |
| ## 797 | -0.310262311 | -0.371882840 | -0.685367219 | -0.18378346 | -0.475618532 |
| ## 798 | -0.310262311 | -0.371882840 | -0.546159361 | -0.18378346 | -0.672980848 |
| ## 799 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 800 | -0.310262311 | -0.371882840 | 0.161480586  | -0.18378346 | 0.974565441  |
| ## 801 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 802 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 803 | -0.310262311 | -0.371882840 | -0.714368857 | -0.18378346 | -0.672980848 |
| ## 804 | -0.310262311 | -0.371882840 | 0.149879931  | -0.18378346 | 0.142211326  |
| ## 805 | 0.909062964  | -0.371882840 | 0.028073055  | -0.18378346 | 0.777203125  |
| ## 806 | -0.114299321 | -0.371882840 | 1.217140180  | 0.03942029  | 0.253763939  |
| ## 807 | -0.310262311 | -0.371882840 | -0.099534148 | -0.18378346 | -0.672980848 |
| ## 808 | -0.310262311 | -0.371882840 | 0.480498595  | 1.03143695  | 0.597002750  |
| ## 809 | -0.310262311 | 0.263617743  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 810 | 4.175112809  | -0.371882840 | -0.656365582 | -0.18378346 | -0.672980848 |
| ## 811 | -0.310262311 | -0.371882840 | 0.091876657  | -0.18378346 | 0.356735583  |
| ## 812 | -0.310262311 | -0.371882840 | -0.012529237 | -0.18378346 | 0.717136333  |
| ## 813 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 814 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | 1.755433735  |
| ## 815 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 816 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 817 | -0.310262311 | -0.371882840 | 2.197395516  | -0.18378346 | -0.672980848 |
| ## 818 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 819 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 820 | -0.310262311 | -0.371882840 | 0.428295648  | -0.18378346 | 0.004915802  |
| ## 821 | -0.310262311 | -0.371882840 | -0.140136440 | -0.18378346 | -0.192446514 |
| ## 822 | 3.478355509  | -0.371882840 | -0.447553795 | -0.18378346 | 0.073563564  |
| ## 823 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 824 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 825 | -0.310262311 | 2.686463715  | 0.091876657  | -0.18378346 | 0.648488571  |
| ## 826 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | 1.755433735  |
| ## 827 | -0.310262311 | -0.371882840 | 0.381893029  | -0.18378346 | 0.639907601  |
| ## 828 | -0.310262311 | -0.371882840 | -0.035730547 | -0.18378346 | -0.672980848 |
| ## 829 | -0.310262311 | 2.368713424  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 830 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 831 | -0.310262311 | -0.371882840 | -0.012529237 | -0.18378346 | -0.672980848 |
| ## 832 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.047186723  |
| ## 833 | -0.310262311 | -0.371882840 | -0.128535786 | -0.18378346 | -0.672980848 |
| ## 834 | -0.310262311 | -0.371882840 | -0.006728909 | -0.18378346 | -0.209608454 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 835 | 3.674318499  | 1.077852865  | 0.532701542  | -0.18378346 | 0.262344910  |
| ## 836 | -0.310262311 | 0.164320777  | 0.666109073  | -0.18378346 | -0.201027484 |
| ## 837 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 838 | 0.821968301  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 839 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 840 | -0.310262311 | 2.428291603  | 0.277487135  | 6.80993400  | 1.446518805  |
| ## 841 | -0.310262311 | 3.262386119  | 1.704367684  | -0.18378346 | 0.897336709  |
| ## 842 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 843 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 844 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 845 | 1.475178270  | -0.371882840 | -0.476555432 | -0.18378346 | -0.286837187 |
| ## 846 | -0.310262311 | -0.371882840 | -0.667966237 | -0.18378346 | -0.252513306 |
| ## 847 | -0.310262311 | -0.371882840 | -0.192339387 | -0.18378346 | 3.840609507  |
| ## 848 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 849 | -0.310262311 | -0.371882840 | 0.654508418  | -0.18378346 | -0.672980848 |
| ## 850 | -0.310262311 | -0.371882840 | -0.325746918 | -0.18378346 | -0.672980848 |
| ## 851 | -0.310262311 | -0.371882840 | 1.275143454  | -0.18378346 | -0.123798752 |
| ## 852 | 1.453404605  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 853 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 854 | 0.952610295  | -0.371882840 | -0.279344299 | -0.18378346 | 0.571259839  |
| ## 855 | -0.310262311 | 3.560277017  | 0.196282551  | -0.18378346 | -0.106636811 |
| ## 856 | -0.310262311 | -0.371882840 | 1.292544436  | -0.18378346 | 0.983146411  |
| ## 857 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 858 | -0.310262311 | 0.700524393  | 0.944524790  | -0.18378346 | 0.262344910  |
| ## 859 | -0.310262311 | -0.371882840 | 0.213683533  | -0.18378346 | 0.554097899  |
| ## 860 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 861 | -0.310262311 | 1.772931627  | -0.151737095 | 0.28742446  | -0.080893901 |
| ## 862 | 0.865515633  | -0.371882840 | 0.306488772  | -0.18378346 | 4.449858396  |
| ## 863 | -0.310262311 | -0.371882840 | 1.565159826  | -0.18378346 | -0.672980848 |
| ## 864 | 3.086429527  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 865 | -0.310262311 | 0.382774102  | 0.608105799  | -0.18378346 | 1.300642311  |
| ## 866 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 867 | -0.310262311 | 1.991384953  | -0.609962963 | -0.18378346 | -0.672980848 |
| ## 868 | -0.310262311 | -0.371882840 | 0.115077967  | -0.18378346 | 0.905917679  |
| ## 869 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 870 | -0.310262311 | -0.371882840 | -0.070532511 | -0.18378346 | 0.193697148  |
| ## 871 | -0.310262311 | 2.924776434  | 0.735713002  | -0.18378346 | -0.321161068 |
| ## 872 | -0.310262311 | -0.371882840 | -0.401151175 | -0.18378346 | -0.269675246 |
| ## 873 | -0.310262311 | -0.371882840 | -0.441753467 | -0.18378346 | 0.082144534  |
| ## 874 | -0.310262311 | -0.371882840 | 1.280943781  | -0.18378346 | 0.923079620  |
| ## 875 | -0.136072986 | -0.213007695 | 1.077932321  | -0.18378346 | -0.046570020 |
| ## 876 | -0.310262311 | 0.144461383  | -0.192339387 | -0.18378346 | -0.449875622 |
| ## 877 | -0.136072986 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 878 | -0.310262311 | -0.371882840 | -0.464954777 | -0.18378346 | -0.312580098 |
| ## 879 | 0.146984667  | -0.371882840 | -0.830375405 | -0.18378346 | 0.236601999  |
| ## 880 | 0.125211001  | 2.726182502  | 0.132478949  | 0.83303362  | 0.039239683  |
| ## 881 | -0.310262311 | -0.371882840 | 0.051274365  | -0.18378346 | 0.064982594  |
| ## 882 | -0.310262311 | 1.336024976  | -0.754971149 | 0.23782362  | -0.235351365 |
| ## 883 | -0.310262311 | -0.371882840 | 1.292544436  | -0.18378346 | -0.123798752 |
| ## 884 | -0.310262311 | -0.371882840 | -0.638964600 | -0.18378346 | -0.672980848 |
| ## 885 | 0.059890004  | -0.213007695 | -0.256142989 | -0.18378346 | 2.021443813  |
| ## 886 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 887 | -0.310262311 | -0.371882840 | -0.122735458 | -0.18378346 | -0.672980848 |
| ## 888 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 889 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 890 | -0.310262311 | 1.236728010  | -0.766571803 | 0.21302321  | 0.167954237  |
| ## 891 | -0.310262311 | -0.371882840 | 0.347091064  | -0.18378346 | -0.037989049 |
| ## 892 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.003665168 |
| ## 893 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 894 | 0.691326308  | 0.541649248  | 0.654508418  | -0.18378346 | 1.309223281  |
| ## 895 | -0.310262311 | -0.371882840 | -0.180738732 | 0.11382154  | -0.158122633 |
| ## 896 | -0.310262311 | -0.371882840 | -0.354748556 | -0.18378346 | -0.672980848 |
| ## 897 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 898 | -0.310262311 | -0.371882840 | 0.532701542  | 0.78343279  | 0.511193047  |
| ## 899 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 900 | -0.310262311 | 0.482071068  | -0.702768202 | -0.18378346 | -0.672980848 |
| ## 901 | -0.310262311 | 1.772931627  | -0.209740370 | 0.28742446  | -0.089474871 |
| ## 902 | -0.310262311 | -0.371882840 | -0.099534148 | -0.18378346 | -0.046570020 |
| ## 903 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 904 | 0.168758332  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 905 | -0.310262311 | -0.371882840 | -0.667966237 | -0.18378346 | -0.672980848 |
| ## 906 | -0.310262311 | -0.371882840 | -0.360548883 | -0.18378346 | -0.672980848 |
| ## 907 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 908 | -0.310262311 | 0.164320777  | -0.325746918 | -0.18378346 | -0.441294651 |
| ## 909 | -0.310262311 | -0.371882840 | 0.335490409  | 5.32190901  | -0.672980848 |
| ## 910 | 1.170346952  | -0.371882840 | -0.557760016 | -0.18378346 | -0.672980848 |
| ## 911 | -0.310262311 | -0.371882840 | 0.306488772  | -0.18378346 | 1.189089698  |
| ## 912 | -0.310262311 | -0.371882840 | 0.573303834  | -0.18378346 | -0.672980848 |
| ## 913 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 914 | -0.310262311 | -0.371882840 | 1.193938870  | -0.18378346 | -0.672980848 |
| ## 915 | 5.633948406  | 0.700524393  | 1.895778490  | -0.18378346 | 1.197670668  |
| ## 916 | -0.310262311 | -0.371882840 | 0.097676984  | -0.18378346 | -0.672980848 |
| ## 917 | -0.310262311 | -0.371882840 | -0.093733821 | -0.18378346 | 0.597002750  |
| ## 918 | 0.865515633  | -0.371882840 | 0.822717914  | -0.18378346 | 0.622745661  |
| ## 919 | 0.626005311  | 0.482071068  | 0.045474038  | -0.18378346 | 0.064982594  |
| ## 920 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 921 | -0.310262311 | -0.371882840 | 0.486298923  | -0.18378346 | 2.519140088  |
| ## 922 | -0.310262311 | -0.371882840 | -0.343147901 | -0.18378346 | -0.672980848 |
| ## 923 | 10.837854493 | -0.371882840 | 0.532701542  | 2.99066986  | 3.720475924  |
| ## 924 | 15.236134950 | -0.371882840 | -0.952182281 | 5.71871567  | 1.369290073  |
| ## 925 | -0.310262311 | 1.832509807  | 0.590704817  | -0.18378346 | 0.845850887  |
| ## 926 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 927 | -0.310262311 | -0.371882840 | -0.499756741 | -0.18378346 | -0.338323008 |
| ## 928 | 0.778420970  | -0.371882840 | -0.882578352 | -0.18378346 | -0.672980848 |
| ## 929 | -0.310262311 | -0.371882840 | -0.215540697 | -0.18378346 | -0.020827109 |
| ## 930 | -0.310262311 | -0.371882840 | 1.211339852  | -0.18378346 | 1.729690824  |
| ## 931 | -0.310262311 | 1.772931627  | -0.151737095 | 0.28742446  | -0.080893901 |
| ## 932 | -0.310262311 | 2.348854031  | 0.045474038  | -0.18378346 | 0.210859088  |
| ## 933 | -0.310262311 | -0.371882840 | -0.256142989 | -0.18378346 | 0.562678869  |
| ## 934 | -0.310262311 | -0.371882840 | 1.246141817  | -0.18378346 | -0.672980848 |
| ## 935 | 0.430042320  | 0.303336529  | -0.557760016 | 0.65943070  | -0.381227860 |
| ## 936 | 2.411445893  | -0.371882840 | 0.857519879  | -0.18378346 | -0.140960692 |
| ## 937 | -0.310262311 | -0.371882840 | -0.592561980 | -0.18378346 | -0.672980848 |
| ## 938 | 0.996157627  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 939 | 1.322762611  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 940 | -0.310262311 | -0.371882840 | -0.505557069 | -0.18378346 | 1.317804252  |
| ## 941 | -0.310262311 | 2.686463715  | 0.712511693  | -0.18378346 | 0.648488571  |
| ## 942 | -0.310262311 | -0.371882840 | 3.044243322  | -0.18378346 | -0.672980848 |

|        |              |              |              |             |              |
|--------|--------------|--------------|--------------|-------------|--------------|
| ## 943 | -0.310262311 | 1.435321942  | -0.424352485 | -0.18378346 | -0.286837187 |
| ## 944 | -0.310262311 | 2.348854031  | -0.354748556 | -0.18378346 | 0.210859088  |
| ## 945 | -0.310262311 | -0.371882840 | -0.192339387 | -0.18378346 | 3.840609507  |
| ## 946 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 947 | -0.310262311 | 0.005445631  | -0.151737095 | -0.18378346 | -0.252513306 |
| ## 948 | -0.310262311 | -0.371882840 | -0.430152812 | -0.18378346 | -0.672980848 |
| ## 949 | -0.310262311 | 1.316165583  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 950 | 6.112969050  | -0.371882840 | 1.449153277  | 5.66911484  | 1.352128133  |
| ## 951 | 1.823556921  | -0.371882840 | 0.468897940  | -0.18378346 | 1.429356865  |
| ## 952 | -0.310262311 | -0.371882840 | 1.565159826  | -0.18378346 | -0.672980848 |
| ## 953 | -0.310262311 | -0.371882840 | -0.772372131 | -0.18378346 | -0.672980848 |
| ## 954 | 0.843741967  | 0.680665000  | 0.584904489  | -0.18378346 | 1.600976270  |
| ## 955 | 1.584046599  | 0.005445631  | 0.909722826  | -0.18378346 | 1.412194924  |
| ## 956 | -0.310262311 | -0.371882840 | -0.534558706 | -0.18378346 | -0.672980848 |
| ## 957 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | -0.672980848 |
| ## 958 | 0.495363317  | -0.371882840 | -0.737570166 | -0.18378346 | -0.355484949 |
| ## 959 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 960 | 0.342947658  | -0.371882840 | 1.947981437  | -0.18378346 | 0.828688947  |
| ## 961 | -0.310262311 | 1.415462549  | 1.657965065  | -0.18378346 | 0.099306475  |
| ## 962 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 963 | -0.310262311 | -0.371882840 | -0.615763290 | -0.18378346 | -0.175284573 |
| ## 964 | -0.310262311 | 2.686463715  | 0.091876657  | -0.18378346 | 0.648488571  |
| ## 965 | -0.310262311 | -0.371882840 | 1.234541162  | -0.18378346 | 0.940241560  |
| ## 966 | 1.192120617  | -0.252726481 | 0.422495321  | -0.18378346 | 0.219440058  |
| ## 967 | 0.669552642  | -0.371882840 | 0.631307109  | -0.18378346 | 0.494031107  |
| ## 968 | -0.310262311 | -0.371882840 | 0.422495321  | 1.05623737  | 0.631326631  |
| ## 969 | -0.310262311 | 0.601227427  | 0.619706454  | -0.18378346 | 0.382478493  |
| ## 970 | -0.310262311 | -0.371882840 | 2.951438083  | -0.18378346 | 0.974565441  |
| ## 971 | -0.310262311 | -0.371882840 | 1.512956879  | -0.18378346 | -0.672980848 |
| ## 972 | -0.310262311 | -0.371882840 | -0.221341024 | -0.18378346 | -0.132379722 |
| ## 973 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 974 | -0.310262311 | -0.371882840 | -0.337347573 | -0.18378346 | 0.236601999  |
| ## 975 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 976 | -0.310262311 | -0.371882840 | 1.512956879  | -0.18378346 | 1.146184846  |
| ## 977 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 978 | -0.310262311 | -0.371882840 | 0.028073055  | -0.18378346 | -0.192446514 |
| ## 979 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 980 | -0.310262311 | -0.371882840 | 2.458410251  | -0.18378346 | -0.115217782 |
| ## 981 | -0.310262311 | -0.371882840 | 0.410894666  | -0.18378346 | -0.561428235 |
| ## 982 | -0.310262311 | -0.371882840 | 0.242685170  | -0.18378346 | 0.210859088  |
| ## 983 | -0.310262311 | -0.272585874 | -0.830375405 | -0.18378346 | -0.535685324 |
| ## 984 | -0.310262311 | 2.726182502  | 2.214796499  | -0.18378346 | 2.673597552  |
| ## 985 | -0.310262311 | -0.371882840 | -0.679566892 | 0.98183612  | 0.965984471  |
| ## 986 | -0.310262311 | -0.371882840 | -0.737570166 | -0.18378346 | -0.355484949 |
| ## 987 | -0.310262311 | 0.005445631  | -0.151737095 | -0.18378346 | -0.252513306 |
| ## 988 | -0.310262311 | -0.371882840 | 0.474698268  | -0.18378346 | -0.672980848 |
| ## 989 | -0.310262311 | -0.371882840 | -0.209740370 | -0.18378346 | 1.523747538  |
| ## 990 | -0.310262311 | -0.371882840 | -0.302545609 | -0.18378346 | 0.485450136  |
| ## 991 | -0.310262311 | -0.371882840 | -0.534558706 | -0.18378346 | -0.672980848 |
| ## 992 | -0.310262311 | 3.063792186  | -0.702768202 | -0.18378346 | -0.303999127 |
| ## 993 | -0.201393983 | -0.034273156 | 0.793716277  | 6.28912525  | 0.614164690  |
| ## 994 | -0.310262311 | -0.371882840 | -0.296745281 | -0.18378346 | -0.432713681 |
| ## 995 | 0.059890004  | 0.323195922  | -0.232941679 | 0.23782362  | 0.545516928  |
| ## 996 | 5.459759081  | -0.371882840 | -0.441753467 | -0.18378346 | -0.672980848 |

|         |              |              |              |             |              |
|---------|--------------|--------------|--------------|-------------|--------------|
| ## 997  | -0.310262311 | -0.371882840 | 0.358691719  | -0.18378346 | 3.205617708  |
| ## 998  | -0.310262311 | -0.371882840 | 3.340060021  | -0.18378346 | -0.672980848 |
| ## 999  | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1000 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1001 | -0.310262311 | 2.189978885  | 1.054731011  | -0.18378346 | 0.811527006  |
| ## 1002 | -0.310262311 | -0.371882840 | 0.091876657  | -0.18378346 | 3.960743091  |
| ## 1003 | -0.310262311 | -0.371882840 | 0.927123808  | -0.18378346 | -0.123798752 |
| ## 1004 | -0.310262311 | -0.371882840 | -0.354748556 | -0.18378346 | -0.672980848 |
| ## 1005 | -0.310262311 | -0.371882840 | 7.330685297  | -0.18378346 | 5.453831916  |
| ## 1006 | -0.310262311 | -0.371882840 | -0.412751830 | -0.18378346 | 2.527721058  |
| ## 1007 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1008 | -0.310262311 | 3.937605488  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1009 | -0.310262311 | -0.371882840 | -0.836175733 | -0.18378346 | -0.501361443 |
| ## 1010 | -0.310262311 | -0.371882840 | -0.221341024 | -0.18378346 | -0.132379722 |
| ## 1011 | -0.310262311 | -0.371882840 | -0.366349210 | -0.18378346 | -0.672980848 |
| ## 1012 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1013 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1014 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 2.622111731  |
| ## 1015 | -0.310262311 | -0.371882840 | 1.512956879  | -0.18378346 | 1.146184846  |
| ## 1016 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1017 | -0.310262311 | -0.371882840 | 0.207883206  | -0.18378346 | -0.389808830 |
| ## 1018 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.132379722 |
| ## 1019 | -0.310262311 | -0.371882840 | 4.320315358  | -0.18378346 | -0.672980848 |
| ## 1020 | -0.310262311 | -0.113710728 | 0.869120533  | 0.46102737  | 0.562678869  |
| ## 1021 | 0.821968301  | -0.371882840 | 1.675366047  | -0.18378346 | 1.043213203  |
| ## 1022 | -0.310262311 | -0.371882840 | 0.712511693  | -0.18378346 | 0.965984471  |
| ## 1023 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1024 | -0.310262311 | -0.371882840 | 0.352891392  | -0.18378346 | 0.288087821  |
| ## 1025 | -0.310262311 | -0.371882840 | -0.006728909 | -0.18378346 | -0.672980848 |
| ## 1026 | -0.310262311 | -0.371882840 | 0.352891392  | -0.18378346 | -0.672980848 |
| ## 1027 | 2.389672227  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1028 | -0.310262311 | -0.371882840 | -0.047331201 | -0.18378346 | 1.008889322  |
| ## 1029 | -0.310262311 | -0.371882840 | -0.325746918 | -0.18378346 | -0.672980848 |
| ## 1030 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1031 | -0.310262311 | -0.371882840 | 0.979326755  | -0.18378346 | -0.672980848 |
| ## 1032 | -0.310262311 | -0.371882840 | 0.950325118  | -0.18378346 | -0.115217782 |
| ## 1033 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1034 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1035 | -0.310262311 | -0.371882840 | -0.285144626 | -0.05978138 | 0.116468415  |
| ## 1036 | 0.865515633  | -0.371882840 | -0.006728909 | -0.18378346 | -0.672980848 |
| ## 1037 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1038 | -0.310262311 | -0.371882840 | 0.944524790  | -0.18378346 | 2.132996426  |
| ## 1039 | 0.212305664  | 0.104742597  | 1.060531339  | -0.18378346 | 1.094699025  |
| ## 1040 | -0.310262311 | -0.371882840 | 2.910835791  | -0.18378346 | -0.672980848 |
| ## 1041 | 0.800194636  | 0.640946214  | 0.550102524  | -0.18378346 | 3.771961745  |
| ## 1042 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1043 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1044 | -0.310262311 | -0.371882840 | 0.573303834  | -0.18378346 | 2.330358742  |
| ## 1045 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1046 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | 0.682812452  |
| ## 1047 | -0.310262311 | -0.371882840 | -0.882578352 | -0.18378346 | -0.672980848 |
| ## 1048 | -0.310262311 | -0.371882840 | 2.098789950  | -0.18378346 | -0.672980848 |
| ## 1049 | -0.310262311 | -0.371882840 | 1.367948693  | -0.18378346 | -0.672980848 |
| ## 1050 | -0.310262311 | -0.371882840 | 0.352891392  | -0.18378346 | 0.288087821  |

```

## 1051 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1052 -0.310262311 5.129169081 -0.952182281 -0.18378346 -0.672980848
## 1053 -0.310262311 -0.371882840 0.306488772 -0.18378346 -0.672980848
## 1054 -0.310262311 -0.371882840 0.915523153 -0.18378346 1.171927757
## 1055 -0.310262311 0.700524393 0.938724463 -0.18378346 0.253763939
## 1056 -0.310262311 6.439889033 0.039673710 -0.18378346 1.120441936
## 1057 0.059890004 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1058 -0.310262311 0.601227427 0.619706454 -0.18378346 0.382478493
## 1059 -0.310262311 0.740243180 1.008328392 -0.18378346 0.288087821
## 1060 -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 1061 0.059890004 -0.213007695 -0.256142989 -0.18378346 2.047186723
## 1062 1.780009589 -0.371882840 1.275143454 -0.18378346 0.150792296
## 1063 -0.310262311 -0.371882840 0.144079604 -0.18378346 0.133630356
## 1064 -0.310262311 -0.371882840 0.753113985 -0.18378346 -0.672980848
## 1065 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.535685324
## 1066 -0.310262311 -0.371882840 0.300688445 -0.18378346 -0.209608454
## 1067 -0.310262311 0.918977719 -0.476555432 -0.18378346 -0.672980848
## 1068 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1069 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 1070 -0.310262311 -0.371882840 1.634763755 -0.18378346 0.854431858
## 1071 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1072 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1073 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1074 -0.310262311 0.045164417 -0.586761653 -0.18378346 -0.406970770
## 1075 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1076 -0.310262311 -0.371882840 1.060531339 -0.18378346 0.811527006
## 1077 -0.310262311 -0.371882840 -0.691167547 -0.18378346 -0.501361443
## 1078 -0.310262311 -0.371882840 0.045474038 -0.18378346 -0.672980848
## 1079 -0.310262311 -0.371882840 -0.169138078 -0.18378346 0.485450136
## 1080 -0.310262311 -0.371882840 0.979326755 -0.18378346 5.041945344
## 1081 -0.310262311 -0.371882840 -0.563560343 -0.18378346 -0.672980848
## 1082 1.213894283 -0.371882840 -0.140136440 -0.18378346 0.528354988
## 1083 -0.310262311 0.760102573 1.031529702 -0.18378346 0.305249761
## 1084 -0.310262311 -0.371882840 0.016472400 -0.18378346 0.760041185
## 1085 -0.310262311 3.520558230 0.184681896 -0.18378346 -0.672980848
## 1086 1.932425249 -0.034273156 0.149879931 3.66028110 2.596368820
## 1087 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1088 0.604231645 -0.371882840 0.857519879 -0.18378346 0.494031107
## 1089 -0.310262311 -0.371882840 0.671909401 -0.18378346 0.125049386
## 1090 -0.310262311 -0.371882840 1.640564082 -0.18378346 0.605583720
## 1091 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1092 -0.310262311 0.760102573 -0.621563618 -0.18378346 -0.672980848
## 1093 -0.310262311 -0.272585874 -0.830375405 -0.18378346 -0.535685324
## 1094 1.148573286 0.958696505 1.396950330 -0.18378346 0.485450136
## 1095 2.411445893 -0.371882840 1.715968339 -0.18378346 1.300642311
## 1096 0.103437336 3.441120657 0.271686808 2.66826444 0.313830731
## 1097 -0.310262311 2.527588569 -0.348948228 -0.18378346 -0.501361443
## 1098 0.168758332 1.395603156 0.086076330 -0.18378346 1.729690824
## 1099 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1100 -0.048978324 -0.371882840 0.080276002 -0.18378346 -0.235351365
## 1101 -0.310262311 -0.371882840 -0.111134803 -0.18378346 0.571259839
## 1102 -0.310262311 1.197009224 0.666109073 -0.18378346 1.034632233
## 1103 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1104 -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.672980848

```

|    |      |              |              |              |             |              |
|----|------|--------------|--------------|--------------|-------------|--------------|
| ## | 1105 | -0.005430993 | -0.292445267 | -0.064732184 | 0.41142654  | 0.382478493  |
| ## | 1106 | 1.584046599  | -0.371882840 | 0.567503507  | -0.18378346 | 0.820107977  |
| ## | 1107 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1108 | -0.310262311 | -0.371882840 | -0.441753467 | -0.18378346 | 0.082144534  |
| ## | 1109 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1110 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.398389800 |
| ## | 1111 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.003665168 |
| ## | 1112 | -0.310262311 | -0.371882840 | -0.604162635 | -0.18378346 | 0.365316553  |
| ## | 1113 | -0.310262311 | -0.371882840 | 0.979326755  | -0.18378346 | -0.672980848 |
| ## | 1114 | -0.310262311 | -0.371882840 | 1.019929047  | -0.18378346 | 0.880174768  |
| ## | 1115 | 6.940368344  | -0.371882840 | -0.952182281 | -0.18378346 | 5.041945344  |
| ## | 1116 | -0.310262311 | -0.371882840 | 0.463097613  | -0.18378346 | 0.022077743  |
| ## | 1117 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1118 | -0.310262311 | -0.371882840 | 0.550102524  | 1.08103778  | 0.657069542  |
| ## | 1119 | -0.310262311 | -0.371882840 | 0.236884843  | -0.18378346 | -0.672980848 |
| ## | 1120 | 1.518725602  | -0.371882840 | 0.022272728  | -0.18378346 | -0.672980848 |
| ## | 1121 | -0.310262311 | -0.371882840 | -0.615763290 | -0.18378346 | -0.672980848 |
| ## | 1122 | 3.129976859  | 2.765901288  | 1.344747383  | -0.18378346 | 0.682812452  |
| ## | 1123 | -0.310262311 | -0.371882840 | -0.772372131 | -0.18378346 | -0.672980848 |
| ## | 1124 | 0.277626661  | -0.371882840 | -0.482355759 | -0.18378346 | -0.209608454 |
| ## | 1125 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1126 | -0.310262311 | -0.371882840 | -0.754971149 | 2.34585903  | -0.089474871 |
| ## | 1127 | 0.190531998  | -0.371882840 | -0.952182281 | -0.18378346 | -0.080893901 |
| ## | 1128 | -0.310262311 | -0.371882840 | -0.290944954 | -0.18378346 | -0.672980848 |
| ## | 1129 | -0.310262311 | -0.371882840 | 0.874920861  | -0.18378346 | 0.228021029  |
| ## | 1130 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1131 | -0.310262311 | -0.371882840 | 2.266999446  | -0.18378346 | 1.703947913  |
| ## | 1132 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1133 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | -0.672980848 |
| ## | 1134 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1135 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.020827109 |
| ## | 1136 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1137 | 0.103437336  | 3.838308522  | 0.277487135  | 2.66826444  | 0.313830731  |
| ## | 1138 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1139 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1140 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1141 | -0.310262311 | -0.371882840 | -0.679566892 | 0.98183612  | 0.965984471  |
| ## | 1142 | 1.758235924  | -0.371882840 | 0.985127082  | -0.18378346 | 0.965984471  |
| ## | 1143 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1144 | 5.786364066  | -0.371882840 | 1.327346401  | -0.18378346 | 0.768622155  |
| ## | 1145 | -0.310262311 | -0.371882840 | 1.263542799  | -0.18378346 | -0.209608454 |
| ## | 1146 | 3.064655862  | -0.371882840 | 1.889978162  | -0.18378346 | 1.540909478  |
| ## | 1147 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1148 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1149 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1150 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1151 | 0.408268654  | -0.371882840 | -0.760771476 | -0.18378346 | -0.672980848 |
| ## | 1152 | -0.310262311 | 3.679433376  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## | 1153 | -0.310262311 | 0.561508641  | 0.573303834  | -0.18378346 | -0.269675246 |
| ## | 1154 | -0.310262311 | -0.371882840 | -0.783972786 | -0.18378346 | -0.672980848 |
| ## | 1155 | 2.041293577  | -0.371882840 | 0.613906126  | -0.18378346 | -0.209608454 |
| ## | 1156 | -0.310262311 | -0.371882840 | 0.468897940  | -0.18378346 | -0.672980848 |
| ## | 1157 | -0.310262311 | 3.063792186  | 1.060531339  | -0.18378346 | 0.811527006  |
| ## | 1158 | -0.310262311 | -0.371882840 | -0.865177370 | -0.18378346 | -0.672980848 |

|         |              |              |              |             |              |
|---------|--------------|--------------|--------------|-------------|--------------|
| ## 1159 | 2.563861552  | -0.371882840 | -0.186539060 | -0.18378346 | 0.459707226  |
| ## 1160 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1161 | -0.310262311 | -0.371882840 | 0.312289100  | -0.18378346 | 1.669624032  |
| ## 1162 | -0.310262311 | -0.371882840 | -0.314146263 | -0.18378346 | -0.441294651 |
| ## 1163 | 1.562272933  | 0.482071068  | -0.203940042 | -0.18378346 | 3.411560995  |
| ## 1164 | -0.310262311 | -0.371882840 | 3.746082942  | -0.18378346 | -0.672980848 |
| ## 1165 | -0.310262311 | -0.371882840 | 0.138279277  | -0.18378346 | -0.672980848 |
| ## 1166 | -0.310262311 | 1.554478302  | -0.105334476 | -0.18378346 | 0.159373267  |
| ## 1167 | -0.310262311 | 0.918977719  | -0.476555432 | -0.18378346 | -0.672980848 |
| ## 1168 | -0.310262311 | -0.371882840 | 0.410894666  | -0.18378346 | 2.347520683  |
| ## 1169 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1170 | 1.671141261  | -0.371882840 | -0.952182281 | -0.18378346 | 0.107887445  |
| ## 1171 | -0.310262311 | -0.371882840 | -0.343147901 | -0.18378346 | 0.228021029  |
| ## 1172 | -0.310262311 | -0.371882840 | -0.673766565 | -0.18378346 | -0.672980848 |
| ## 1173 | -0.310262311 | 0.581368034  | -0.395350848 | -0.18378346 | -0.672980848 |
| ## 1174 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1175 | -0.310262311 | -0.371882840 | -0.789773113 | -0.18378346 | -0.672980848 |
| ## 1176 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1177 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1178 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1179 | 0.212305664  | -0.371882840 | -0.952182281 | -0.18378346 | -0.037989049 |
| ## 1180 | -0.310262311 | -0.371882840 | -0.412751830 | 0.95703570  | 0.528354988  |
| ## 1181 | 1.344536277  | 2.150260098  | 0.231084516  | -0.18378346 | -0.020827109 |
| ## 1182 | -0.310262311 | -0.371882840 | 3.189251508  | -0.18378346 | -0.672980848 |
| ## 1183 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1184 | 1.758235924  | 0.084883204  | 0.149879931  | 0.68423112  | -0.372646889 |
| ## 1185 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1186 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1187 | -0.310262311 | -0.371882840 | 1.420151640  | -0.18378346 | -0.672980848 |
| ## 1188 | -0.310262311 | -0.371882840 | 0.457297286  | -0.18378346 | -0.672980848 |
| ## 1189 | -0.310262311 | -0.371882840 | -0.163337750 | -0.18378346 | -0.672980848 |
| ## 1190 | 1.170346952  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1191 | 1.105025955  | -0.371882840 | -0.383750193 | 0.21302321  | 0.442545285  |
| ## 1192 | -0.310262311 | -0.371882840 | 0.753113985  | -0.18378346 | -0.672980848 |
| ## 1193 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1194 | -0.027204658 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1195 | -0.310262311 | -0.371882840 | 1.402750658  | -0.18378346 | 0.717136333  |
| ## 1196 | -0.310262311 | 0.184180170  | -0.459154449 | -0.18378346 | -0.552847265 |
| ## 1197 | -0.310262311 | 1.594197088  | -0.760771476 | -0.18378346 | -0.106636811 |
| ## 1198 | -0.310262311 | 0.621086821  | 0.805316932  | 0.63463029  | 1.197670668  |
| ## 1199 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1200 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1201 | -0.310262311 | -0.371882840 | -0.377949865 | -0.18378346 | -0.672980848 |
| ## 1202 | -0.310262311 | 0.581368034  | -0.395350848 | -0.18378346 | -0.672980848 |
| ## 1203 | -0.310262311 | -0.371882840 | 1.019929047  | -0.18378346 | 0.494031107  |
| ## 1204 | -0.310262311 | -0.371882840 | 0.480498595  | -0.18378346 | 0.176535207  |
| ## 1205 | 0.996157627  | -0.371882840 | 0.103477312  | 1.30424153  | 0.519774018  |
| ## 1206 | -0.070751989 | -0.153429515 | -0.064732184 | 0.53542862  | 0.442545285  |
| ## 1207 | -0.310262311 | 1.097712258  | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1208 | 0.517136983  | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1209 | -0.310262311 | 1.415462549  | -0.430152812 | -0.18378346 | -0.672980848 |
| ## 1210 | -0.310262311 | -0.371882840 | -0.952182281 | -0.18378346 | -0.672980848 |
| ## 1211 | -0.310262311 | -0.173288908 | -0.389550520 | -0.18378346 | -0.587171146 |
| ## 1212 | 1.431630939  | -0.371882840 | -0.024129892 | -0.18378346 | 1.386452014  |



```

## 1213 -0.310262311 3.937605488 2.829631207 -0.18378346 1.189089698
## 1214 -0.310262311 -0.371882840 -0.696967874 -0.18378346 -0.672980848
## 1215 -0.310262311 0.263617743 -0.209740370 -0.18378346 -0.398389800
## 1216 -0.310262311 -0.371882840 0.376092701 -0.18378346 -0.672980848
## 1217 -0.310262311 -0.371882840 0.231084516 -0.18378346 1.077537084
## 1218 -0.310262311 -0.371882840 0.915523153 -0.18378346 -0.672980848
## 1219 -0.310262311 -0.371882840 0.544302197 0.60982987 0.991727382
## 1220 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1221 -0.310262311 -0.371882840 1.193938870 -0.18378346 -0.672980848
## 1222 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1223 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1224 -0.310262311 -0.371882840 -0.644764927 -0.18378346 -0.672980848
## 1225 -0.310262311 -0.371882840 0.532701542 -0.18378346 -0.672980848
## 1226 -0.310262311 -0.371882840 0.393493684 -0.18378346 -0.672980848
## 1227 -0.310262311 -0.371882840 0.306488772 -0.18378346 1.189089698
## 1228 -0.310262311 2.587166749 -0.952182281 -0.18378346 0.605583720
## 1229 -0.310262311 -0.371882840 0.335490409 -0.18378346 -0.672980848
## 1230 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1231 -0.310262311 -0.371882840 0.550102524 -0.18378346 -0.672980848
## 1232 -0.310262311 -0.371882840 1.588361136 -0.18378346 -0.175284573
## 1233 1.039704958 -0.371882840 1.222940507 -0.18378346 2.270291950
## 1234 -0.310262311 -0.371882840 0.265886480 -0.18378346 -0.072312930
## 1235 -0.310262311 3.937605488 2.829631207 -0.18378346 1.189089698
## 1236 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1237 -0.310262311 -0.371882840 0.816917587 -0.18378346 -0.672980848
## 1238 -0.310262311 -0.371882840 0.213683533 -0.18378346 2.227387099
## 1239 -0.310262311 1.375743763 0.335490409 -0.18378346 1.231994549
## 1240 -0.310262311 1.057993471 -0.702768202 0.16342237 -0.175284573
## 1241 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1242 -0.310262311 -0.371882840 -0.180738732 0.11382154 -0.158122633
## 1243 -0.310262311 -0.371882840 -0.354748556 -0.18378346 1.094699025
## 1244 -0.310262311 -0.371882840 -0.325746918 -0.18378346 1.189089698
## 1245 -0.310262311 -0.371882840 -0.952182281 -0.18378346 2.278872920
## 1246 -0.310262311 -0.371882840 0.532701542 0.78343279 0.511193047
## 1247 -0.310262311 -0.371882840 -0.609962963 -0.18378346 -0.166703603
## 1248 -0.310262311 -0.371882840 2.098789950 -0.18378346 0.451126255
## 1249 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1250 -0.310262311 -0.371882840 0.277487135 -0.18378346 -0.672980848
## 1251 -0.310262311 -0.371882840 -0.018329564 -0.18378346 -0.672980848
## 1252 -0.310262311 -0.371882840 -0.441753467 -0.18378346 0.082144534
## 1253 -0.310262311 -0.371882840 -0.389550520 -0.18378346 0.159373267
## 1254 -0.310262311 -0.371882840 -0.058931856 -0.18378346 0.210859088
## 1255 0.495363317 -0.232867088 0.880721188 -0.18378346 0.536935958
## 1256 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1257 -0.310262311 -0.371882840 -0.528758379 -0.18378346 -0.672980848
## 1258 -0.310262311 -0.371882840 1.176537888 -0.18378346 -0.046570020
## 1259 -0.310262311 -0.371882840 -0.818774750 -0.18378346 -0.672980848
## 1260 -0.310262311 2.229697671 0.880721188 -0.18378346 0.004915802
## 1261 -0.310262311 1.872228593 0.364492047 -0.18378346 -0.672980848
## 1262 -0.310262311 -0.371882840 1.849375870 -0.18378346 -0.672980848
## 1263 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1264 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1265 -0.310262311 -0.371882840 0.062875020 -0.18378346 1.206251638
## 1266 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

```

## 1267 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 1268 -0.310262311 -0.371882840 0.468897940 -0.18378346 -0.672980848
## 1269 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.605583720
## 1270 -0.310262311 -0.371882840 0.242685170 -0.18378346 -0.672980848
## 1271 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848
## 1272 -0.310262311 -0.371882840 0.706711365 5.12350568 1.043213203
## 1273 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.511193047
## 1274 -0.310262311 2.825479468 -0.331547246 -0.18378346 -0.672980848
## 1275 0.168758332 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1276 -0.310262311 -0.371882840 -0.633164272 -0.18378346 0.279506850
## 1277 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1278 -0.136072986 1.475040729 -0.018329564 0.23782362 -0.312580098
## 1279 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1280 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1281 1.192120617 -0.272585874 1.507156551 0.38662612 0.219440058
## 1282 -0.310262311 -0.371882840 0.016472400 -0.18378346 -0.672980848
## 1283 0.495363317 0.362914709 -0.093733821 -0.18378346 1.558071419
## 1284 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1285 -0.310262311 -0.232867088 1.135935596 -0.18378346 0.442545285
## 1286 -0.310262311 -0.371882840 0.289087790 -0.18378346 -0.672980848
## 1287 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1288 -0.310262311 -0.371882840 1.808773578 -0.18378346 1.369290073
## 1289 0.364721323 -0.371882840 0.526901215 -0.18378346 2.064348664
## 1290 -0.310262311 -0.371882840 -0.035730547 -0.18378346 -0.672980848
## 1291 0.408268654 -0.371882840 -0.760771476 -0.18378346 -0.672980848
## 1292 -0.310262311 -0.371882840 -0.192339387 -0.18378346 -0.672980848
## 1293 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.672980848
## 1294 -0.310262311 3.421261264 0.155680259 0.98183612 0.554097899
## 1295 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1296 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1297 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1298 -0.310262311 -0.371882840 0.207883206 -0.18378346 -0.672980848
## 1299 -0.310262311 -0.252726481 -0.807174096 -0.18378346 -0.518523384
## 1300 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1301 -0.310262311 1.415462549 1.286744109 -0.18378346 0.296668791
## 1302 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1303 -0.310262311 -0.371882840 0.480498595 -0.18378346 -0.372646889
## 1304 -0.310262311 -0.371882840 -0.372149538 -0.18378346 -0.672980848
## 1305 1.039704958 -0.371882840 -0.592561980 -0.18378346 0.923079620
## 1306 -0.310262311 -0.371882840 -0.256142989 -0.18378346 2.424749415
## 1307 0.952610295 -0.371882840 0.399294011 -0.18378346 -0.672980848
## 1308 -0.310262311 0.045164417 -0.087933493 -0.18378346 -0.312580098
## 1309 -0.310262311 -0.371882840 1.634763755 2.02345361 0.090725505
## 1310 0.299400326 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1311 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1312 -0.310262311 2.130400705 -0.952182281 -0.18378346 -0.672980848
## 1313 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1314 0.038116339 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1315 -0.310262311 1.236728010 -0.766571803 0.21302321 0.167954237
## 1316 1.649367596 -0.371882840 0.625506781 -0.18378346 2.441911355
## 1317 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1318 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1319 -0.310262311 -0.371882840 1.431752295 -0.18378346 -0.175284573
## 1320 1.475178270 -0.371882840 -0.476555432 -0.18378346 -0.286837187

```

```

## 1321 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1322 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1323 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1324 1.388083608 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1325 -0.310262311 -0.371882840 1.263542799 -0.18378346 -0.672980848
## 1326 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1327 -0.310262311 -0.371882840 -0.256142989 -0.18378346 0.356735583
## 1328 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 1329 -0.310262311 -0.232867088 1.135935596 -0.18378346 0.442545285
## 1330 -0.310262311 -0.371882840 -0.749170821 -0.18378346 0.554097899
## 1331 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1332 -0.310262311 -0.371882840 0.225284188 -0.18378346 -0.484199503
## 1333 -0.310262311 -0.371882840 0.254285825 -0.18378346 2.896702779
## 1334 -0.310262311 -0.371882840 -0.366349210 -0.18378346 -0.098055841
## 1335 0.821968301 -0.371882840 1.391150003 -0.18378346 1.592395300
## 1336 -0.310262311 -0.371882840 0.573303834 -0.18378346 1.583814330
## 1337 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1338 -0.310262311 3.679433376 -0.952182281 -0.18378346 -0.672980848
## 1339 -0.310262311 0.819680753 1.164937233 -0.18378346 0.365316553
## 1340 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1341 1.344536277 0.283477136 -0.070532511 0.63463029 -0.243932335
## 1342 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1343 -0.310262311 -0.371882840 0.022272728 -0.18378346 -0.672980848
## 1344 -0.310262311 -0.371882840 0.254285825 -0.18378346 1.558071419
## 1345 -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.303999127
## 1346 -0.310262311 -0.371882840 0.793716277 -0.18378346 -0.672980848
## 1347 -0.310262311 -0.371882840 -0.337347573 -0.18378346 -0.672980848
## 1348 -0.310262311 -0.371882840 -0.447553795 -0.18378346 -0.672980848
## 1349 -0.310262311 -0.371882840 -0.615763290 -0.18378346 -0.672980848
## 1350 1.257441614 -0.252726481 1.646364410 0.41142654 0.313830731
## 1351 -0.310262311 -0.371882840 -0.540359033 -0.18378346 -0.372646889
## 1352 -0.310262311 -0.371882840 0.428295648 -0.18378346 0.348154612
## 1353 1.213894283 0.323195922 0.265886480 7.62834774 1.129022906
## 1354 -0.310262311 -0.371882840 0.613906126 -0.18378346 0.356735583
## 1355 3.935602487 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1356 -0.310262311 -0.371882840 -0.435953140 -0.18378346 -0.672980848
## 1357 -0.310262311 0.541649248 0.028073055 -0.18378346 -0.672980848
## 1358 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1359 -0.310262311 -0.371882840 -0.464954777 -0.18378346 -0.312580098
## 1360 -0.310262311 -0.371882840 -0.818774750 -0.18378346 -0.672980848
## 1361 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1362 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1363 -0.310262311 -0.093851335 0.410894666 0.16342237 0.082144534
## 1364 -0.310262311 -0.371882840 1.623163100 -0.18378346 -0.672980848
## 1365 1.192120617 -0.371882840 -0.952182281 -0.18378346 -0.527104354
## 1366 -0.310262311 3.043932793 -0.453354122 -0.18378346 -0.672980848
## 1367 -0.310262311 -0.371882840 -0.203940042 -0.18378346 3.780542716
## 1368 -0.310262311 -0.371882840 -0.047331201 15.31647686 0.665650512
## 1369 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.408221404
## 1370 -0.310262311 1.395603156 0.347091064 -0.18378346 0.476869166
## 1371 -0.310262311 -0.371882840 -0.604162635 -0.18378346 -0.672980848
## 1372 2.259030233 -0.371882840 -0.493956414 0.78343279 -0.672980848
## 1373 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1374 -0.310262311 -0.371882840 0.532701542 -0.18378346 0.425383345

```

```

## 1375 0.255852995 -0.272585874 -0.830375405 -0.18378346 -0.544266295
## 1376 -0.310262311 2.070822525 -0.238742007 -0.18378346 0.382478493
## 1377 0.887289298 -0.371882840 -0.899979335 -0.18378346 -0.672980848
## 1378 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1379 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1380 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1381 -0.310262311 -0.371882840 -0.099534148 -0.18378346 0.588421780
## 1382 -0.310262311 -0.371882840 2.910835791 -0.18378346 -0.672980848
## 1383 1.562272933 -0.371882840 1.060531339 -0.18378346 0.811527006
## 1384 -0.310262311 1.753072234 0.294888117 -0.18378346 -0.672980848
## 1385 0.212305664 -0.371882840 1.623163100 -0.18378346 0.871593798
## 1386 -0.310262311 -0.213007695 -0.447553795 -0.18378346 -0.604333086
## 1387 -0.310262311 -0.371882840 0.416694993 -0.18378346 -0.003665168
## 1388 -0.310262311 0.045164417 -0.952182281 -0.18378346 -0.672980848
## 1389 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1390 2.498540555 -0.371882840 -0.203940042 12.68763271 0.433964315
## 1391 -0.310262311 -0.371882840 0.416694993 -0.18378346 -0.003665168
## 1392 -0.310262311 -0.371882840 0.207883206 -0.18378346 6.191795358
## 1393 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1394 -0.310262311 -0.371882840 -0.221341024 -0.18378346 -0.672980848
## 1395 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1396 0.016342673 -0.371882840 -0.865177370 -0.18378346 -0.612914057
## 1397 -0.310262311 -0.371882840 2.029186021 -0.18378346 0.305249761
## 1398 -0.310262311 -0.371882840 0.979326755 -0.18378346 -0.672980848
## 1399 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1400 -0.310262311 -0.371882840 -0.760771476 -0.18378346 -0.672980848
## 1401 -0.310262311 -0.312304661 -0.870977697 -0.18378346 -0.587171146
## 1402 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.080893901
## 1403 1.431630939 1.216868617 -0.024129892 -0.18378346 0.699974393
## 1404 -0.310262311 -0.371882840 1.072131994 -0.18378346 0.519774018
## 1405 -0.310262311 -0.371882840 1.222940507 -0.18378346 -0.140960692
## 1406 -0.310262311 -0.371882840 0.735713002 -0.18378346 -0.321161068
## 1407 -0.310262311 -0.371882840 -0.952182281 -0.18378346 2.090091575
## 1408 -0.310262311 0.005445631 -0.731769839 0.28742446 -0.672980848
## 1409 -0.310262311 -0.371882840 -0.180738732 -0.18378346 3.900676299
## 1410 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1411 -0.310262311 3.441120657 -0.395350848 -0.18378346 0.562678869
## 1412 -0.310262311 -0.371882840 -0.006728909 -0.18378346 -0.475618532
## 1413 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1414 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1415 2.955787533 -0.371882840 -0.517157724 -0.18378346 1.901310229
## 1416 -0.310262311 0.501930461 0.973526427 -0.18378346 2.175901277
## 1417 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1418 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1419 1.627593930 -0.371882840 0.347091064 -0.18378346 0.476869166
## 1420 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1421 -0.310262311 0.243758349 1.791372596 -0.18378346 -0.132379722
## 1422 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1423 -0.310262311 0.621086821 -0.053131529 0.56022904 -0.029408079
## 1424 1.039704958 -0.371882840 0.683510056 -0.18378346 -0.140960692
## 1425 -0.310262311 -0.371882840 1.599961790 -0.18378346 -0.672980848
## 1426 -0.310262311 -0.371882840 0.706711365 5.12350568 1.043213203
## 1427 -0.310262311 0.720383787 0.967726100 -0.18378346 0.270925880
## 1428 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

```

## 1429 -0.092525655 -0.371882840 -0.012529237 -0.05978138 0.253763939
## 1430 0.408268654 -0.332164054 0.921323480 -0.18378346 0.579840809
## 1431 -0.310262311 -0.371882840 0.666109073 -0.18378346 0.760041185
## 1432 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1433 -0.310262311 -0.371882840 -0.012529237 -0.18378346 0.717136333
## 1434 -0.310262311 -0.371882840 1.089532976 -0.18378346 1.008889322
## 1435 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1436 -0.310262311 -0.371882840 -0.598362308 -0.18378346 -0.672980848
## 1437 0.647778976 -0.371882840 0.126678622 0.46102737 0.391059464
## 1438 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1439 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1440 -0.310262311 -0.371882840 -0.256142989 -0.18378346 2.424749415
## 1441 -0.310262311 0.462211675 -0.708568529 -0.18378346 -0.672980848
## 1442 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1443 -0.310262311 0.501930461 -0.952182281 -0.18378346 -0.672980848
## 1444 -0.310262311 0.501930461 -0.952182281 -0.18378346 -0.672980848
## 1445 -0.027204658 -0.371882840 -0.267743644 -0.18378346 -0.672980848
## 1446 -0.310262311 -0.371882840 0.515300560 -0.18378346 -0.672980848
## 1447 -0.310262311 6.459748427 1.443352950 -0.18378346 1.094699025
## 1448 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1449 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1450 -0.310262311 -0.371882840 -0.360548883 -0.18378346 -0.672980848
## 1451 -0.310262311 -0.371882840 -0.528758379 -0.18378346 -0.672980848
## 1452 -0.310262311 -0.371882840 0.202082878 -0.18378346 2.201644188
## 1453 -0.310262311 -0.371882840 -0.122735458 -0.18378346 -0.672980848
## 1454 -0.310262311 -0.371882840 -0.511357396 -0.18378346 -0.672980848
## 1455 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1456 -0.310262311 -0.371882840 -0.192339387 -0.18378346 3.840609507
## 1457 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1458 -0.092525655 -0.371882840 -0.464954777 -0.05978138 -0.132379722
## 1459 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1460 -0.310262311 -0.371882840 -0.505557069 -0.18378346 1.317804252
## 1461 -0.310262311 -0.371882840 0.033873383 -0.18378346 0.056401624
## 1462 0.059890004 -0.213007695 -0.256142989 -0.18378346 2.047186723
## 1463 -0.310262311 -0.371882840 -0.099534148 -0.18378346 -0.672980848
## 1464 -0.310262311 -0.371882840 -0.145936768 0.23782362 0.073563564
## 1465 -0.310262311 -0.371882840 2.951438083 -0.18378346 0.974565441
## 1466 -0.310262311 -0.371882840 -0.122735458 -0.18378346 -0.672980848
## 1467 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1468 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1469 -0.310262311 -0.371882840 1.420151640 -0.18378346 -0.672980848
## 1470 -0.310262311 -0.371882840 1.460753932 -0.18378346 -0.672980848
## 1471 0.386494989 -0.371882840 0.370292374 -0.18378346 2.115834486
## 1472 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1473 1.213894283 -0.371882840 -0.140136440 -0.18378346 0.528354988
## 1474 1.954198914 -0.371882840 1.170737560 -0.18378346 1.120441936
## 1475 1.758235924 -0.371882840 0.428295648 -0.18378346 1.369290073
## 1476 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1477 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1478 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1479 15.236134950 -0.371882840 -0.952182281 5.71871567 1.369290073
## 1480 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1481 -0.310262311 1.832509807 0.590704817 -0.18378346 0.845850887
## 1482 -0.310262311 -0.371882840 0.695110710 -0.18378346 -0.192446514

```

```

## 1483 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1484 2.367898561 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1485 1.257441614 -0.252726481 1.681166375 0.41142654 0.262344910
## 1486 0.626005311 0.581368034 1.112734286 -0.18378346 0.022077743
## 1487 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1488 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1489 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.492780473
## 1490 -0.310262311 0.005445631 -0.151737095 -0.18378346 -0.252513306
## 1491 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1492 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1493 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.369290073
## 1494 -0.310262311 0.760102573 1.031529702 -0.18378346 0.305249761
## 1495 -0.310262311 -0.371882840 1.066331666 -0.18378346 1.317804252
## 1496 -0.310262311 -0.371882840 0.219483861 -0.18378346 -0.672980848
## 1497 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1498 -0.310262311 0.045164417 -0.586761653 -0.18378346 -0.406970770
## 1499 -0.310262311 -0.371882840 0.439896303 -0.18378346 -0.672980848
## 1500 -0.310262311 -0.371882840 -0.586761653 -0.18378346 -0.672980848
## 1501 -0.310262311 1.852369200 0.347091064 -0.18378346 0.288087821
## 1502 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1503 -0.310262311 3.262386119 2.237997808 -0.18378346 -0.672980848
## 1504 1.431630939 -0.371882840 -0.024129892 -0.18378346 1.386452014
## 1505 -0.310262311 -0.371882840 -0.401151175 -0.18378346 0.142211326
## 1506 3.238845187 0.164320777 0.306488772 3.16427277 1.420775895
## 1507 -0.310262311 -0.371882840 0.138279277 -0.18378346 3.771961745
## 1508 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1509 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.080893901
## 1510 -0.310262311 -0.371882840 -0.441753467 -0.18378346 -0.295418157
## 1511 -0.310262311 0.303336529 0.033873383 -0.18378346 -0.672980848
## 1512 1.170346952 0.978555898 0.625506781 -0.18378346 0.494031107
## 1513 -0.310262311 -0.371882840 0.207883206 -0.18378346 6.191795358
## 1514 1.126799620 -0.371882840 0.399294011 -0.18378346 -0.389808830
## 1515 -0.310262311 -0.371882840 -0.389550520 -0.18378346 -0.672980848
## 1516 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.672980848
## 1517 -0.310262311 -0.371882840 1.211339852 -0.18378346 -0.355484949
## 1518 -0.310262311 0.462211675 -0.708568529 -0.18378346 -0.672980848
## 1519 1.344536277 -0.371882840 0.811117259 -0.18378346 0.631326631
## 1520 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1521 0.364721323 -0.371882840 0.666109073 -0.18378346 0.657069542
## 1522 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1523 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1524 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1525 0.342947658 0.223898956 0.277487135 -0.18378346 1.927053140
## 1526 -0.310262311 -0.371882840 0.045474038 -0.18378346 -0.672980848
## 1527 0.103437336 2.527588569 0.062875020 0.75863237 -0.012246139
## 1528 -0.310262311 -0.371882840 -0.140136440 -0.18378346 -0.672980848
## 1529 -0.310262311 -0.371882840 -0.540359033 -0.18378346 -0.372646889
## 1530 -0.310262311 -0.371882840 0.016472400 -0.18378346 -0.201027484
## 1531 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.672980848
## 1532 -0.310262311 -0.371882840 1.095333303 -0.18378346 -0.295418157
## 1533 -0.310262311 -0.371882840 -0.244542334 -0.18378346 -0.672980848
## 1534 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1535 -0.310262311 -0.371882840 1.808773578 -0.18378346 -0.672980848
## 1536 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848

```

```

## 1537 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1538 -0.092525655 0.382774102 -0.911579989 0.31222487 -0.527104354
## 1539 -0.310262311 -0.371882840 1.744969976 -0.18378346 3.317170322
## 1540 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1541 0.800194636 -0.371882840 -0.656365582 -0.18378346 -0.672980848
## 1542 -0.310262311 1.415462549 1.286744109 -0.18378346 0.296668791
## 1543 -0.310262311 -0.371882840 2.458410251 -0.18378346 0.588421780
## 1544 0.277626661 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1545 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1546 -0.310262311 -0.371882840 -0.087933493 -0.18378346 1.884148289
## 1547 -0.310262311 0.263617743 -0.952182281 -0.18378346 -0.672980848
## 1548 -0.310262311 -0.371882840 0.219483861 -0.18378346 -0.098055841
## 1549 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1550 5.895232394 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1551 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1552 -0.310262311 3.222667332 -0.952182281 -0.18378346 2.055767694
## 1553 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1554 -0.310262311 -0.371882840 3.925893092 -0.18378346 0.923079620
## 1555 -0.310262311 0.621086821 0.787915949 -0.18378346 1.686785973
## 1556 0.495363317 -0.371882840 0.990927410 7.20674066 1.566652389
## 1557 0.734873639 -0.371882840 -0.116935131 -0.18378346 1.798338586
## 1558 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1559 -0.310262311 2.170119492 1.025729374 -0.18378346 0.785784096
## 1560 1.105025955 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1561 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1562 -0.310262311 6.618623572 0.410894666 -0.18378346 2.347520683
## 1563 -0.310262311 -0.371882840 1.019929047 -0.18378346 0.880174768
## 1564 0.669552642 -0.371882840 0.631307109 -0.18378346 0.494031107
## 1565 -0.310262311 -0.371882840 1.652164737 -0.18378346 -0.672980848
## 1566 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1567 0.342947658 -0.371882840 0.480498595 2.09785486 0.116468415
## 1568 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1569 -0.310262311 1.514759515 0.149879931 -0.18378346 0.545516928
## 1570 -0.310262311 -0.371882840 0.613906126 -0.18378346 1.643881121
## 1571 -0.310262311 0.283477136 -0.760771476 -0.18378346 -0.389808830
## 1572 -0.310262311 -0.371882840 -0.354748556 -0.18378346 0.210859088
## 1573 0.669552642 0.938837112 1.338947056 -0.05978138 0.691393423
## 1574 1.845330586 1.097712258 0.196282551 1.65144736 0.176535207
## 1575 -0.310262311 -0.371882840 0.596505144 -0.18378346 0.854431858
## 1576 -0.310262311 -0.371882840 -0.296745281 -0.18378346 1.274899400
## 1577 -0.310262311 -0.093851335 -0.870977697 -0.18378346 -0.552847265
## 1578 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1579 -0.310262311 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1580 -0.310262311 -0.371882840 0.515300560 -0.18378346 3.668990102
## 1581 -0.310262311 -0.272585874 -0.772372131 -0.18378346 -0.544266295
## 1582 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1583 1.649367596 1.415462549 0.097676984 -0.18378346 1.661043062
## 1584 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1585 -0.310262311 -0.371882840 1.234541162 -0.18378346 0.940241560
## 1586 -0.310262311 0.839540146 0.115077967 -0.18378346 -0.672980848
## 1587 -0.310262311 -0.014413762 0.613906126 0.26262404 -0.055150990
## 1588 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1589 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1590 7.092784004 -0.371882840 -0.459154449 2.61866361 -0.192446514

```

```

## 1591 -0.092525655 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1592 -0.310262311 -0.371882840 0.474698268 -0.18378346 -0.672980848
## 1593 -0.310262311 -0.371882840 -0.047331201 -0.18378346 -0.672980848
## 1594 -0.310262311 0.700524393 0.938724463 -0.18378346 0.253763939
## 1595 -0.310262311 -0.371882840 -0.186539060 -0.18378346 0.228021029
## 1596 -0.310262311 0.422492888 -0.319946591 -0.18378346 1.317804252
## 1597 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1598 -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.063731960
## 1599 0.626005311 -0.312304661 0.764714640 -0.18378346 0.476869166
## 1600 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1601 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 1602 -0.310262311 -0.371882840 -0.667966237 -0.18378346 -0.467037562
## 1603 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1604 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1605 -0.310262311 -0.371882840 -0.540359033 -0.18378346 0.245182969
## 1606 -0.310262311 0.382774102 1.066331666 -0.18378346 0.322411702
## 1607 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1608 -0.310262311 -0.371882840 0.753113985 -0.18378346 1.214832608
## 1609 -0.310262311 -0.371882840 0.857519879 -0.18378346 -0.672980848
## 1610 -0.310262311 1.177149831 -0.952182281 -0.18378346 -0.003665168
## 1611 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1612 -0.310262311 -0.371882840 0.532701542 0.78343279 0.511193047
## 1613 -0.310262311 0.402633495 -0.273543971 -0.18378346 -0.003665168
## 1614 -0.310262311 -0.371882840 -0.279344299 -0.18378346 -0.012246139
## 1615 4.175112809 1.673634661 1.437552622 -0.18378346 -0.672980848
## 1616 -0.310262311 2.626885536 0.219483861 -0.18378346 0.622745661
## 1617 -0.310262311 -0.371882840 1.188138542 -0.18378346 -0.046570020
## 1618 -0.310262311 2.468010390 0.086076330 -0.18378346 0.245182969
## 1619 -0.310262311 -0.371882840 1.495555897 -0.18378346 0.528354988
## 1620 -0.310262311 -0.371882840 1.077932321 -0.18378346 0.991727382
## 1621 -0.157846652 -0.371882840 0.961925772 0.36182570 0.931660590
## 1622 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.412194924
## 1623 1.823556921 -0.371882840 0.468897940 -0.18378346 1.429356865
## 1624 -0.310262311 1.633915875 0.335490409 0.80823320 1.060375144
## 1625 -0.310262311 -0.371882840 1.652164737 -0.18378346 -0.672980848
## 1626 -0.310262311 -0.371882840 -0.256142989 -0.18378346 0.562678869
## 1627 -0.310262311 6.976092650 -0.952182281 -0.18378346 -0.672980848
## 1628 -0.310262311 -0.371882840 -0.076332839 -0.18378346 -0.672980848
## 1629 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1630 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1631 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1632 1.584046599 0.005445631 0.909722826 -0.18378346 1.412194924
## 1633 -0.310262311 -0.371882840 0.509500232 -0.18378346 0.768622155
## 1634 1.170346952 -0.371882840 -0.557760016 -0.18378346 -0.672980848
## 1635 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1636 -0.310262311 0.700524393 0.944524790 -0.18378346 0.262344910
## 1637 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1638 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1639 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1640 -0.310262311 -0.371882840 0.967726100 -0.18378346 0.270925880
## 1641 -0.310262311 1.872228593 0.364492047 -0.18378346 2.244549039
## 1642 -0.310262311 -0.371882840 0.155680259 -0.18378346 3.840609507
## 1643 -0.310262311 -0.371882840 0.381893029 -0.18378346 0.639907601
## 1644 -0.310262311 1.415462549 1.153336578 -0.18378346 -0.158122633

```



```

## 1645 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1646 -0.310262311 -0.371882840 -0.441753467 -0.18378346 0.082144534
## 1647 -0.310262311 -0.371882840 -0.447553795 -0.18378346 -0.672980848
## 1648 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 1649 -0.310262311 0.422492888 -0.720169184 -0.18378346 -0.329742038
## 1650 -0.310262311 -0.371882840 -0.018329564 -0.18378346 -0.672980848
## 1651 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1652 1.213894283 0.323195922 0.265886480 7.62834774 1.129022906
## 1653 -0.310262311 -0.371882840 1.391150003 -0.18378346 1.927053140
## 1654 1.061478623 -0.371882840 -0.215540697 -0.18378346 1.506585597
## 1655 0.255852995 4.116340027 0.439896303 1.13063862 0.236601999
## 1656 -0.092525655 -0.371882840 -0.720169184 -0.18378346 -0.501361443
## 1657 -0.310262311 -0.371882840 2.359804685 -0.18378346 0.545516928
## 1658 -0.310262311 -0.371882840 0.236884843 -0.18378346 -0.235351365
## 1659 0.364721323 0.045164417 0.515300560 0.85783404 0.777203125
## 1660 0.277626661 -0.371882840 -0.482355759 -0.18378346 -0.209608454
## 1661 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1662 -0.310262311 -0.371882840 -0.598362308 -0.18378346 -0.672980848
## 1663 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1664 7.092784004 -0.371882840 1.350547711 -0.18378346 0.785784096
## 1665 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1666 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1667 0.843741967 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1668 -0.310262311 0.263617743 1.280943781 -0.18378346 -0.123798752
## 1669 -0.310262311 -0.371882840 1.582560808 -0.18378346 -0.140960692
## 1670 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1671 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1672 -0.310262311 2.706323108 0.393493684 -0.18378346 -0.672980848
## 1673 0.734873639 -0.371882840 0.167280914 -0.18378346 -0.672980848
## 1674 -0.310262311 -0.371882840 1.623163100 -0.18378346 -0.672980848
## 1675 -0.310262311 1.951666166 1.257742472 1.50264486 0.828688947
## 1676 -0.310262311 -0.371882840 0.874920861 -0.18378346 0.228021029
## 1677 -0.310262311 -0.371882840 1.460753932 -0.18378346 -0.672980848
## 1678 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 1679 -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 1680 -0.310262311 0.025305024 -0.836175733 -0.18378346 -0.672980848
## 1681 -0.310262311 -0.371882840 0.352891392 -0.18378346 -0.672980848
## 1682 -0.310262311 1.316165583 1.773971613 -0.18378346 0.056401624
## 1683 -0.310262311 -0.371882840 0.097676984 -0.18378346 -0.672980848
## 1684 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1685 -0.310262311 -0.371882840 2.458410251 -0.18378346 -0.672980848
## 1686 -0.310262311 -0.371882840 1.153336578 -0.18378346 0.099306475
## 1687 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1688 -0.310262311 -0.371882840 0.335490409 -0.18378346 1.231994549
## 1689 -0.310262311 -0.371882840 -0.099534148 -0.18378346 1.437937835
## 1690 -0.136072986 1.475040729 -0.018329564 0.23782362 -0.312580098
## 1691 -0.310262311 -0.371882840 0.352891392 -0.18378346 -0.672980848
## 1692 -0.310262311 -0.371882840 0.735713002 -0.18378346 0.365316553
## 1693 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1694 0.125211001 -0.371882840 0.045474038 10.38119398 0.802946036
## 1695 -0.310262311 -0.371882840 -0.221341024 -0.18378346 -0.672980848
## 1696 -0.310262311 -0.371882840 0.521100887 -0.18378346 0.777203125
## 1697 -0.310262311 0.164320777 -0.325746918 -0.18378346 -0.441294651
## 1698 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

|         |              |              |               |              |               |
|---------|--------------|--------------|---------------|--------------|---------------|
| ## 1699 | -0.310262311 | -0.371882840 | 0.016472400   | -0.18378346  | -0.672980848  |
| ## 1700 | -0.048978324 | 3.679433376  | 0.677709728   | 0.11382154   | 0.416802374   |
| ## 1701 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1702 | -0.310262311 | -0.371882840 | -0.638964600  | -0.18378346  | -0.672980848  |
| ## 1703 | -0.310262311 | 2.726182502  | -0.412751830  | -0.18378346  | -0.406970770  |
| ## 1704 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1705 | -0.310262311 | -0.371882840 | 0.793716277   | -0.18378346  | -0.672980848  |
| ## 1706 | -0.310262311 | 0.958696505  | -0.563560343  | -0.18378346  | -0.098055841  |
| ## 1707 | -0.310262311 | -0.371882840 | -0.870977697  | -0.18378346  | -0.655818908  |
| ## 1708 | 0.038116339  | -0.371882840 | -0.169138078  | -0.18378346  | -0.046570020  |
| ## 1709 | -0.310262311 | -0.371882840 | -0.453354122  | -0.18378346  | 0.064982594   |
| ## 1710 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1711 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1712 | -0.310262311 | -0.371882840 | -0.725969511  | -0.18378346  | -0.672980848  |
| ## 1713 | -0.310262311 | -0.371882840 | 1.246141817   | -0.18378346  | -0.209608454  |
| ## 1714 | -0.310262311 | -0.371882840 | 1.623163100   | -0.18378346  | -0.672980848  |
| ## 1715 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1716 | -0.310262311 | -0.371882840 | 0.207883206   | -0.18378346  | 6.191795358   |
| ## 1717 | -0.310262311 | 1.216868617  | 1.037330029   | -0.18378346  | 0.622745661   |
| ## 1718 | -0.310262311 | -0.371882840 | 0.532701542   | 0.78343279   | 0.511193047   |
| ## 1719 | -0.310262311 | -0.371882840 | 0.120878294   | -0.18378346  | -0.672980848  |
| ## 1720 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ## 1721 | -0.136072986 | -0.371882840 | 1.124334941   | -0.18378346  | 0.090725505   |
| ## 1722 | 4.044470815  | -0.371882840 | 1.367948693   | -0.18378346  | 1.043213203   |
| ## 1723 | -0.310262311 | -0.371882840 | -0.366349210  | -0.18378346  | -0.672980848  |
| ## 1724 | -0.310262311 | -0.371882840 | -0.952182281  | -0.18378346  | -0.672980848  |
| ##      | V22          | V23          | V24           | V25          | V26           |
| ## 1    | -0.117934389 | -0.295168191 | -0.2306970769 | 0.376879707  | -0.3108442609 |
| ## 2    | -0.117934389 | -0.295168191 | -0.2306970769 | -0.198086509 | -0.3108442609 |
| ## 3    | -0.117934389 | -0.295168191 | -0.2306970769 | 1.214862385  | -0.3108442609 |
| ## 4    | -0.117934389 | -0.295168191 | -0.2306970769 | 1.227095708  | 2.7558139427  |
| ## 5    | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 6    | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 7    | -0.117934389 | -0.295168191 | -0.2306970769 | 0.168913203  | 0.1803002170  |
| ## 8    | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 9    | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 10   | -0.117934389 | -0.295168191 | 0.6908292775  | -0.338769733 | -0.3108442609 |
| ## 11   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 12   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 13   | -0.117934389 | -0.295168191 | -0.2306970769 | 0.040463304  | 0.4917576908  |
| ## 14   | -0.117934389 | -0.295168191 | -0.2306970769 | 0.493096283  | 0.5037368244  |
| ## 15   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 16   | 1.324676173  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 17   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 18   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 19   | 8.917363336  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 20   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 21   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 22   | -0.117934389 | -0.295168191 | -0.2306970769 | 2.964227682  | -0.3108442609 |
| ## 23   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 24   | -0.117934389 | -0.295168191 | -0.2306970769 | 0.517562930  | 1.6058171163  |
| ## 25   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 26   | -0.117934389 | 0.375432790  | -0.2306970769 | 1.025245866  | -0.2269903256 |
| ## 27   | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |

|       |              |              |               |              |               |
|-------|--------------|--------------|---------------|--------------|---------------|
| ## 28 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.291246441  | 0.3000915531  |
| ## 29 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 30 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 31 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | 1.4740466466  |
| ## 32 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 33 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 34 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 35 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 36 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 37 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 38 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 39 | -0.117934389 | 0.802178869  | 2.2804622390  | -0.338769733 | -0.3108442609 |
| ## 40 | -0.117934389 | 0.741215143  | -0.0463918060 | -0.338769733 | -0.3108442609 |
| ## 41 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 42 | -0.117934389 | -0.295168191 | -0.2306970769 | 3.153844200  | 3.1032088173  |
| ## 43 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 44 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 45 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 46 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.921262614  | 1.3302970434  |
| ## 47 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 48 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 49 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 50 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 51 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 52 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 53 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 54 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.064929951  | -0.3108442609 |
| ## 55 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.713296111  | 3.8099777001  |
| ## 56 | -0.117934389 | -0.295168191 | 0.7138674364  | -0.338769733 | -0.3108442609 |
| ## 57 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 58 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 59 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 60 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 61 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 62 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 63 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.107895019  | -0.3108442609 |
| ## 64 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 65 | -0.117934389 | -0.295168191 | -0.2306970769 | 4.976609440  | 4.8880997248  |
| ## 66 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.130803229 | 0.5157159580  |
| ## 67 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.022113318  | 0.3959246220  |
| ## 68 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 69 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 70 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 71 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 72 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.468629635  | 0.7433194966  |
| ## 73 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 74 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 75 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 76 | -0.117934389 | 2.265308283  | -0.0924681238 | -0.338769733 | -0.3108442609 |
| ## 77 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.462661408  | -0.3108442609 |
| ## 78 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 79 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 80 | -0.117934389 | 1.990971518  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 81 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |

|        |              |              |               |              |               |
|--------|--------------|--------------|---------------|--------------|---------------|
| ## 82  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 83  | -0.117934389 | -0.295168191 | 2.7873017339  | -0.338769733 | -0.3108442609 |
| ## 84  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 85  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 86  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 87  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 88  | -0.117934389 | -0.295168191 | -0.2306970769 | 3.068210934  | 1.5938379827  |
| ## 89  | -0.117934389 | -0.295168191 | -0.0694299649 | -0.338769733 | -0.3108442609 |
| ## 90  | -0.117934389 | -0.295168191 | -0.2306970769 | 0.034346642  | 0.4198828892  |
| ## 91  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.063519948 | -0.3108442609 |
| ## 92  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 93  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 94  | -0.117934389 | -0.295168191 | -0.2306970769 | 0.548146240  | -0.3108442609 |
| ## 95  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 96  | -0.117934389 | -0.295168191 | 0.5065240066  | -0.338769733 | -0.3108442609 |
| ## 97  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 98  | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 99  | -0.117934389 | -0.295168191 | 0.4374095301  | -0.338769733 | -0.3108442609 |
| ## 100 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 101 | -0.117934389 | -0.295168191 | 0.2070279414  | -0.338769733 | -0.3108442609 |
| ## 102 | -0.117934389 | -0.295168191 | 2.4647675099  | -0.338769733 | -0.3108442609 |
| ## 103 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 104 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 105 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 106 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 107 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.927379276  | -0.3108442609 |
| ## 108 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 109 | -0.117934389 | 2.082417106  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 110 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 111 | 12.268992385 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 112 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 113 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 114 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 115 | 6.151455870  | 0.344950927  | 0.2531042592  | -0.338769733 | -0.3108442609 |
| ## 116 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 117 | 13.548902506 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 118 | -0.117934389 | 0.619287692  | 1.1746306136  | -0.338769733 | -0.3108442609 |
| ## 119 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 120 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 121 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.514578817  | 3.3188332222  |
| ## 122 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 123 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.639896168  | -0.3108442609 |
| ## 124 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 125 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 126 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 127 | -0.117934389 | 0.771697006  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 128 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 129 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 130 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 131 | -0.117934389 | 2.021453380  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 132 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 133 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 134 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 135 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.046579966  | 0.8271734318  |

```

## 136 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 137 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 138 -0.117934389 -0.295168191 -0.2306970769 0.462512973 -0.3108442609
## 139 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 140 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 141 -0.117934389 4.612411717 -0.2306970769 -0.338769733 -0.3108442609
## 142 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 143 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 144 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 145 -0.117934389 0.863142595 0.0918371471 -0.338769733 -0.3108442609
## 146 -0.117934389 -0.295168191 -0.2306970769 0.444162988 1.2224848409
## 147 -0.117934389 -0.295168191 -0.2306970769 1.184279075 -0.3108442609
## 148 -0.117934389 -0.295168191 -0.2306970769 -0.283719776 -0.3108442609
## 149 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 150 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 151 -0.117934389 1.046033771 1.1515924548 -0.338769733 -0.3108442609
## 152 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 153 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 154 -0.117934389 -0.295168191 -0.2306970769 0.841746010 0.3120706867
## 155 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 156 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 157 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 158 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 159 -0.117934389 0.527842104 -0.2306970769 -0.338769733 -0.3108442609
## 160 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 161 -0.117934389 -0.295168191 -0.0463918060 -0.338769733 -0.3108442609
## 162 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 163 -0.117934389 3.819883285 1.5432411554 -0.338769733 -0.3108442609
## 164 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 165 -0.117934389 -0.295168191 -0.2306970769 0.872329319 0.2761332859
## 166 -0.117934389 -0.295168191 -0.2306970769 1.563512112 -0.3108442609
## 167 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 168 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 169 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 170 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 171 -0.117934389 0.223023476 -0.2306970769 1.722545321 1.8094623877
## 172 -0.117934389 2.021453380 0.6447529598 -0.338769733 -0.3108442609
## 173 -0.117934389 0.924106320 -0.2306970769 -0.338769733 -0.3108442609
## 174 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 175 -0.117934389 -0.295168191 1.3589358845 -0.338769733 -0.3108442609
## 176 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 177 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 178 -0.117934389 -0.295168191 -0.2306970769 0.725529434 1.7735249868
## 179 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 180 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 181 -0.117934389 -0.295168191 -0.2306970769 2.107895019 2.0849824606
## 182 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 183 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 184 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 185 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 186 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 187 -0.117934389 -0.295168191 -0.2306970769 0.340179736 0.3480080875
## 188 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 189 -0.117934389 1.076515634 0.8060200718 -0.338769733 -0.3108442609

```

```

## 190 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 191 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 192 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 193 -0.117934389 -0.295168191 -0.2306970769 0.523679592 1.5938379827
## 194 -0.117934389 -0.295168191 4.1004767890 -0.338769733 -0.3108442609
## 195 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 196 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 197 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 198 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.1443628162
## 199 -0.117934389 -0.295168191 -0.2306970769 -0.112453243 0.5756116261
## 200 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 201 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 202 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 203 -0.117934389 -0.295168191 -0.2306970769 0.303479765 0.9469647679
## 204 -0.117934389 6.410841622 -0.2306970769 -0.338769733 -0.3108442609
## 205 1.964631234 0.771697006 -0.2306970769 -0.338769733 -0.3108442609
## 206 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 207 -0.117934389 -0.295168191 -0.2306970769 2.505478041 2.4683147361
## 208 -0.117934389 2.204344557 -0.1155062826 -0.338769733 -0.3108442609
## 209 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 210 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 211 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 212 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 213 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 214 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 215 -0.117934389 -0.295168191 -0.2306970769 0.431929664 1.1985265737
## 216 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 217 -0.117934389 -0.295168191 -0.2306970769 4.028526849 3.9657064370
## 218 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 219 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 220 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 221 -0.117934389 1.320370536 0.9903253427 -0.338769733 -0.3108442609
## 222 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 223 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 224 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 225 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 226 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 227 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 228 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 229 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 230 -0.117934389 0.040132299 -0.2306970769 1.624678731 -0.1790737912
## 231 -0.117934389 -0.295168191 -0.2306970769 0.101629923 7.5474673857
## 232 -0.117934389 0.162059750 0.4604476889 -0.338769733 -0.3108442609
## 233 -0.117934389 3.057836715 0.5526003244 -0.338769733 -0.3108442609
## 234 -0.117934389 -0.295168191 -0.2306970769 -0.094103258 -0.1910529248
## 235 -0.117934389 -0.295168191 -0.2306970769 7.637357358 -0.3108442609
## 236 -0.117934389 -0.295168191 -0.2306970769 -0.179736524 -0.3108442609
## 237 -0.117934389 -0.295168191 -0.2306970769 2.120128343 2.0969615942
## 238 -0.117934389 -0.295168191 -0.2306970769 1.184279075 0.4318620228
## 239 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 240 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 241 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 242 -0.117934389 1.259406811 1.0133635016 -0.338769733 -0.3108442609
## 243 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 244 -0.117934389 -0.295168191 -0.2306970769 1.116995795 -0.3108442609
## 245 -0.117934389 2.966391127 -0.2306970769 -0.338769733 -0.3108442609
## 246 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 247 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 248 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 249 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 250 -0.117934389 -0.295168191 -0.2306970769 0.737762758 1.7974832541
## 251 -0.117934389 0.619287692 1.1746306136 -0.338769733 -0.3108442609
## 252 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 253 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 254 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 16.7953585308
## 255 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 256 -0.117934389 1.594707301 -0.2306970769 -0.338769733 -0.3108442609
## 257 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 258 -0.117934389 -0.295168191 0.0457608294 -0.338769733 -0.3108442609
## 259 -0.117934389 0.040132299 -0.2306970769 1.771478616 -0.3108442609
## 260 -0.117934389 3.179764166 0.2300661003 -0.338769733 -0.3108442609
## 261 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 262 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 263 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 264 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 265 -0.117934389 -0.295168191 -0.2306970769 1.557395450 4.3250804453
## 266 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 267 -0.117934389 -0.295168191 -0.0694299649 -0.338769733 -0.3108442609
## 268 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 269 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 270 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 271 -0.117934389 -0.295168191 -0.2306970769 2.652277926 1.3063387761
## 272 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 273 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 274 -0.117934389 -0.295168191 1.4280503611 -0.338769733 -0.3108442609
## 275 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 276 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 277 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 278 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 279 -0.117934389 1.381334262 0.4834858478 -0.338769733 -0.3108442609
## 280 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 281 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 282 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 283 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 284 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 285 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 286 -0.117934389 -0.295168191 1.7045082674 -0.338769733 -0.3108442609
## 287 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 288 -0.117934389 -0.295168191 0.8751345484 -0.338769733 -0.3108442609
## 289 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 -0.3108442609
## 290 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 291 -0.117934389 -0.295168191 -0.2306970769 2.878594416 2.8396678779
## 292 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 293 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 294 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 295 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 296 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 297 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 298 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 299 -0.117934389 -0.295168191 -0.2306970769 -0.326536409 -0.3108442609
## 300 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 301 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 302 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 303 -0.117934389 -0.295168191 -0.2306970769 0.590962873 0.8990482335
## 304 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 305 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 306 -0.117934389 -0.295168191 -0.2306970769 0.646012830 0.6474864277
## 307 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 308 -0.117934389 -0.295168191 7.4410098240 -0.338769733 -0.3108442609
## 309 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 310 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 311 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 312 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 313 -0.117934389 -0.295168191 -0.2306970769 1.581862097 0.1563419498
## 314 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 315 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 316 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5037368244
## 317 -0.117934389 1.198443085 2.3956530333 -0.338769733 -0.3108442609
## 318 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 319 -0.117934389 -0.295168191 -0.2306970769 1.269912342 -0.3108442609
## 320 -0.117934389 -0.295168191 -0.2306970769 0.737762758 0.7433194966
## 321 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.0353241879
## 322 -0.117934389 -0.295168191 -0.2306970769 0.254546470 0.8511316990
## 323 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 324 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 325 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 326 -0.117934389 4.033256324 -0.2306970769 -0.338769733 -0.3108442609
## 327 -0.117934389 -0.295168191 -0.2306970769 0.523679592 0.9589439015
## 328 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 329 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 330 -0.117934389 -0.295168191 -0.2306970769 0.297363103 -0.3108442609
## 331 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 332 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 333 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 334 -0.117934389 -0.295168191 -0.2306970769 0.786696053 1.3422761770
## 335 -0.117934389 -0.295168191 -0.2306970769 1.153695766 0.4198828892
## 336 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 337 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 338 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 339 -0.117934389 -0.295168191 -0.2306970769 0.303479765 0.9469647679
## 340 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 341 7.832693742 0.101096025 0.3682950535 -0.338769733 -0.3108442609
## 342 0.012225963 0.070614162 2.1422332858 -0.338769733 -0.3108442609
## 343 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 344 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 0.2521750187
## 345 -0.117934389 0.009650437 0.2300661003 -0.338769733 -0.3108442609
## 346 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 347 -0.117934389 -0.295168191 -0.2306970769 0.071046613 0.5516533589
## 348 -0.117934389 5.283012699 -0.2306970769 -0.338769733 -0.3108442609
## 349 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 350 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 351 -0.117934389 -0.295168191 -0.2306970769 -0.112453243 -0.0952198560

```



```

## 352 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 353 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 354 -0.117934389 -0.295168191 -0.2306970769 1.789828601 2.6599808738
## 355 -0.117934389 -0.295168191 -0.2306970769 2.315861523 2.2886277320
## 356 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 357 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 358 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 359 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 360 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 361 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 362 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 363 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 364 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 365 -0.117934389 -0.295168191 -0.2306970769 2.395378127 2.3605025336
## 366 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 367 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 368 -0.117934389 -0.295168191 -0.2306970769 4.554559771 -0.3108442609
## 369 -0.117934389 -0.295168191 -0.2306970769 0.003763333 0.5037368244
## 370 -0.117934389 -0.295168191 -0.2306970769 0.627662844 -0.3108442609
## 371 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 372 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 373 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 374 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 375 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 376 -0.117934389 -0.295168191 -0.2306970769 -0.259253128 -0.1551155240
## 377 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.8032151646
## 378 -0.117934389 -0.295168191 -0.2306970769 0.071046613 -0.3108442609
## 379 -0.117934389 -0.295168191 0.1839897826 -0.338769733 -0.3108442609
## 380 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 381 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 382 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 383 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 384 -0.117934389 2.448199459 -0.2306970769 -0.338769733 -0.3108442609
## 385 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 386 -0.117934389 1.228924948 -0.2306970769 0.590962873 2.1209198615
## 387 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 388 -0.117934389 4.642893580 -0.2306970769 -0.338769733 -0.3108442609
## 389 -0.117934389 -0.295168191 -0.2306970769 0.805046039 0.4318620228
## 390 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 391 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 392 1.216209213 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 393 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 394 -0.117934389 0.985070046 -0.2306970769 -0.338769733 -0.3108442609
## 395 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 396 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 397 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 398 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 399 -0.117934389 -0.295168191 -0.2306970769 1.288262327 -0.3108442609
## 400 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 401 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 402 -0.117934389 -0.081795152 -0.2306970769 -0.338769733 -0.3108442609
## 403 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 404 -0.117934389 -0.295168191 -0.2306970769 1.704195335 0.4438411564
## 405 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 406 -0.117934389 -0.051313289 0.1609516237 -0.338769733 -0.3108442609
## 407 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 408 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 409 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 410 -0.117934389 -0.295168191 1.4741266788 -0.338769733 0.5756116261
## 411 -0.117934389 -0.295168191 2.7181872574 -0.338769733 -0.3108442609
## 412 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 -0.3108442609
## 413 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 414 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 415 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 416 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 417 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 418 -0.117934389 -0.295168191 -0.2306970769 0.780579391 0.7792568974
## 419 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 420 -0.117934389 0.771697006 0.5756384832 -0.338769733 -0.3108442609
## 421 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 422 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 423 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 424 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 425 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 426 -0.117934389 2.600608773 0.1609516237 -0.338769733 -0.3108442609
## 427 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 428 -0.117934389 0.436396516 1.4741266788 -0.338769733 -0.3108442609
## 429 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 430 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 431 -0.117934389 -0.295168191 -0.2306970769 0.150563218 -0.3108442609
## 432 -0.117934389 -0.295168191 -0.2306970769 1.581862097 0.1563419498
## 433 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 434 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 435 -0.117934389 2.996872990 -0.2306970769 -0.338769733 -0.3108442609
## 436 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 437 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 438 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5157159580
## 439 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 440 -0.117934389 -0.295168191 -0.2306970769 1.269912342 2.0490450598
## 441 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 442 -0.117934389 -0.295168191 -0.2306970769 1.214862385 2.7318556754
## 443 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 444 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 445 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 446 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 447 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 448 -0.117934389 -0.295168191 -0.2306970769 -0.118569905 0.1204045490
## 449 -0.117934389 1.655671027 -0.2306970769 -0.338769733 -0.3108442609
## 450 -0.117934389 -0.295168191 -0.2306970769 2.205761609 -0.3108442609
## 451 -0.117934389 1.289888674 0.7138674364 -0.338769733 -0.3108442609
## 452 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 453 -0.117934389 -0.295168191 -0.2306970769 0.248429808 1.6058171163
## 454 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 455 -0.117934389 -0.295168191 0.7369055953 -0.338769733 -0.3108442609
## 456 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 457 -0.117934389 -0.295168191 -0.2306970769 0.921262614 -0.3108442609
## 458 -0.117934389 0.253505339 -0.2306970769 -0.338769733 -0.3108442609
## 459 -0.117934389 0.466878378 1.5202029965 -0.338769733 -0.3108442609

```

```

## 460 -0.117934389 7.934934761 -0.2306970769 0.486979621 1.3063387761
## 461 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 462 -0.117934389 -0.264686329 -0.2306970769 -0.338769733 -0.3108442609
## 463 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 464 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 465 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 466 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 467 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 468 -0.117934389 1.076515634 -0.2306970769 -0.338769733 -0.3108442609
## 469 -0.117934389 -0.295168191 -0.2306970769 3.331227395 4.4808091822
## 470 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 471 -0.117934389 4.520966129 -0.2306970769 -0.338769733 -0.3108442609
## 472 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 473 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 474 -0.117934389 4.094220050 -0.2306970769 -0.338769733 -0.3108442609
## 475 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 476 -0.117934389 -0.264686329 -0.2306970769 -0.338769733 -0.3108442609
## 477 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 478 -0.117934389 -0.295168191 -0.2306970769 0.964079248 -0.0592824551
## 479 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 480 -0.117934389 0.223023476 0.1609516237 -0.338769733 -0.3108442609
## 481 -0.117934389 1.167961222 1.1285542959 -0.338769733 -0.3108442609
## 482 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 483 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 484 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 485 -0.117934389 -0.295168191 -0.2306970769 0.927379276 -0.3108442609
## 486 -0.117934389 2.478681322 0.1379134649 -0.338769733 -0.3108442609
## 487 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 488 -0.117934389 0.040132299 2.3265385567 -0.338769733 -0.3108442609
## 489 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 490 -0.117934389 -0.295168191 -0.2306970769 -0.008469991 0.3360289539
## 491 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 492 -0.117934389 -0.295168191 -0.2306970769 0.621546182 1.3662344442
## 493 -0.117934389 -0.295168191 0.4834858478 -0.338769733 -0.3108442609
## 494 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 495 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 496 -0.117934389 -0.295168191 -0.2306970769 1.208745723 1.1985265737
## 497 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 498 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 499 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 500 -0.117934389 -0.295168191 -0.2306970769 0.847862672 0.8511316990
## 501 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 502 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 503 -0.117934389 0.131577888 0.7369055953 -0.338769733 -0.3108442609
## 504 -0.117934389 0.893624457 -0.2306970769 -0.338769733 -0.3108442609
## 505 -0.117934389 -0.295168191 0.6908292775 -0.338769733 -0.3108442609
## 506 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 507 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 508 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 509 8.873976553 1.259406811 -0.2306970769 -0.338769733 -0.3108442609
## 510 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 511 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 512 -0.117934389 0.040132299 -0.2306970769 1.771478616 -0.3108442609
## 513 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.8214415213

```

```

## 514 -0.117934389 4.642893580 0.6908292775 -0.338769733 -0.3108442609
## 515 -0.117934389 -0.295168191 -0.2306970769 0.248429808 1.6058171163
## 516 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.3108442609
## 517 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 518 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 519 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2521750187
## 520 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 521 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 522 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 523 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 524 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 525 -0.117934389 -0.295168191 0.7138674364 -0.338769733 -0.3108442609
## 526 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 527 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 528 -0.117934389 -0.295168191 -0.2306970769 1.257679018 1.1266517720
## 529 -0.117934389 -0.295168191 -0.2306970769 2.505478041 2.4683147361
## 530 -0.117934389 -0.295168191 -0.2306970769 0.627662844 1.5818588491
## 531 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 532 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 533 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 534 -0.117934389 -0.295168191 -0.2306970769 -0.032936639 0.3959246220
## 535 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 536 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 537 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 538 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 539 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 540 -0.117934389 -0.295168191 0.3913332123 -0.338769733 -0.3108442609
## 541 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 542 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.5756116261
## 543 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 544 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 545 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 546 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.3719663547
## 547 -0.117934389 -0.295168191 -0.2306970769 0.658246154 -0.3108442609
## 548 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 549 -0.117934389 0.863142595 0.0918371471 -0.338769733 -0.3108442609
## 550 -0.117934389 -0.295168191 -0.2306970769 0.860095996 4.3849761133
## 551 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 552 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 553 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 554 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 555 -0.117934389 0.771697006 0.5756384832 -0.338769733 -0.3108442609
## 556 -0.117934389 -0.295168191 -0.2306970769 0.150563218 -0.3108442609
## 557 -0.117934389 1.960489655 -0.2306970769 -0.338769733 -0.3108442609
## 558 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 559 -0.117934389 -0.295168191 -0.2306970769 -0.106336581 -0.3108442609
## 560 -0.117934389 -0.295168191 -0.2306970769 3.893960288 4.3490387125
## 561 4.296670862 0.162059750 -0.2306970769 -0.338769733 -0.3108442609
## 562 -0.117934389 -0.295168191 3.5936372941 0.676596139 -0.3108442609
## 563 0.001379267 -0.295168191 -0.2306970769 -0.271486452 -0.1790737912
## 564 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 565 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 0.0006132129
## 566 -0.117934389 4.124701913 -0.2306970769 -0.338769733 -0.3108442609
## 567 -0.117934389 -0.295168191 -0.2306970769 1.471762184 -0.3108442609

```

```

## 568 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 569 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 570 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 571 -0.117934389 -0.295168191 -0.2306970769 3.331227395 4.4808091822
## 572 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 573 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 574 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 575 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 576 -0.117934389 -0.295168191 -0.2306970769 1.300495651 -0.3108442609
## 577 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 578 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 579 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 580 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 581 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.0712615887
## 582 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 583 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 584 -0.117934389 -0.295168191 -0.2306970769 1.581862097 2.5162312705
## 585 -0.117934389 -0.295168191 -0.1155062826 -0.338769733 -0.3108442609
## 586 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 587 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 588 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 589 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 590 -0.117934389 2.082417106 -0.2306970769 -0.338769733 -0.3108442609
## 591 -0.117934389 -0.295168191 -0.2306970769 5.484292376 5.3912233363
## 592 -0.117934389 -0.295168191 -0.2306970769 0.101629923 -0.3108442609
## 593 -0.117934389 -0.295168191 -0.2306970769 -0.100219919 -0.3108442609
## 594 -0.117934389 -0.295168191 -0.2306970769 0.211729836 -0.3108442609
## 595 -0.117934389 -0.295168191 -0.2306970769 0.719412772 0.7193612294
## 596 -0.117934389 -0.295168191 0.3222187357 -0.338769733 -0.3108442609
## 597 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 598 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 599 -0.117934389 -0.295168191 -0.2306970769 0.083279937 0.5157159580
## 600 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 601 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 602 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 603 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 604 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 605 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 606 -0.117934389 -0.295168191 -0.2306970769 0.713296111 0.3719663547
## 607 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 608 -0.117934389 -0.295168191 0.9672871839 -0.338769733 -0.3108442609
## 609 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 610 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 611 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 612 -0.117934389 2.173862694 -0.1155062826 -0.338769733 -0.3108442609
## 613 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 614 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 615 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 616 -0.117934389 -0.295168191 -0.2306970769 1.557395450 -0.3108442609
## 617 -0.117934389 -0.295168191 -0.2306970769 0.523679592 -0.3108442609
## 618 0.619640936 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 619 -0.117934389 6.410841622 -0.2306970769 -0.338769733 -0.3108442609
## 620 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 621 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

|        |              |              |               |              |               |
|--------|--------------|--------------|---------------|--------------|---------------|
| ## 622 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.688829463  | -0.3108442609 |
| ## 623 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.034495076  | 2.7797722099  |
| ## 624 | -0.117934389 | 1.198443085  | 2.3956530333  | -0.338769733 | -0.3108442609 |
| ## 625 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 626 | -0.117934389 | 1.655671027  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 627 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 628 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 629 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.052696628  | 0.4558202900  |
| ## 630 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | 0.4198828892  |
| ## 631 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.107895019  | -0.3108442609 |
| ## 632 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 633 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 634 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.075753272 | 0.2042584842  |
| ## 635 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 636 | -0.117934389 | -0.295168191 | 2.7873017339  | -0.338769733 | -0.3108442609 |
| ## 637 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 638 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 639 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 640 | -0.117934389 | -0.295168191 | 3.4554083409  | -0.338769733 | -0.3108442609 |
| ## 641 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 642 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 643 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 644 | -0.117934389 | 0.283987202  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 645 | -0.117934389 | 2.813981813  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 646 | -0.117934389 | -0.295168191 | -0.2306970769 | 3.245594128  | 2.9834174812  |
| ## 647 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 648 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 649 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 650 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 651 | -0.117934389 | -0.295168191 | 1.4050122022  | -0.338769733 | -0.3108442609 |
| ## 652 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 653 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 654 | -0.117934389 | 3.606510245  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 655 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 656 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 657 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.780579391  | -0.3108442609 |
| ## 658 | -0.117934389 | 0.741215143  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 659 | -0.117934389 | -0.295168191 | 0.6217148009  | -0.338769733 | -0.3108442609 |
| ## 660 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 661 | -0.117934389 | 1.259406811  | 1.0133635016  | -0.338769733 | -0.3108442609 |
| ## 662 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.269912342  | -0.3108442609 |
| ## 663 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 664 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 665 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.071046613  | 1.7136293188  |
| ## 666 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.312728975  | 0.7672777638  |
| ## 667 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 668 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 669 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 670 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 671 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 672 | -0.117934389 | 0.009650437  | 2.1652714447  | -0.338769733 | -0.3108442609 |
| ## 673 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 674 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 675 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |

|        |              |              |               |              |               |
|--------|--------------|--------------|---------------|--------------|---------------|
| ## 676 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 677 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 678 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 679 | -0.117934389 | 5.496385738  | 2.2343859213  | -0.338769733 | -0.3108442609 |
| ## 680 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 681 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 682 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.058813289  | 0.6355072941  |
| ## 683 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 684 | -0.117934389 | 1.960489655  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 685 | -0.117934389 | 6.410841622  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 686 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.621546182  | 1.5698797155  |
| ## 687 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.101629923  | 7.5474673857  |
| ## 688 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 689 | -0.117934389 | -0.295168191 | -0.2306970769 | 3.875610302  | 3.8099777001  |
| ## 690 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 691 | -0.117934389 | -0.295168191 | 0.6447529598  | -0.338769733 | -0.3108442609 |
| ## 692 | -0.117934389 | -0.295168191 | 1.8427372206  | -0.338769733 | -0.3108442609 |
| ## 693 | -0.117934389 | -0.295168191 | -0.2306970769 | 4.976609440  | 5.2953902675  |
| ## 694 | -0.117934389 | -0.295168191 | 2.7873017339  | -0.338769733 | -0.3108442609 |
| ## 695 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.272896455  | 0.2881124195  |
| ## 696 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 697 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 698 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 699 | -0.117934389 | -0.295168191 | 1.4510885200  | -0.338769733 | -0.3108442609 |
| ## 700 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.179736524 | -0.3108442609 |
| ## 701 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.749996082  | 1.8214415213  |
| ## 702 | -0.117934389 | -0.295168191 | 0.5295621655  | -0.338769733 | -0.3108442609 |
| ## 703 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | 0.0485297473  |
| ## 704 | -0.117934389 | 1.046033771  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 705 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 706 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 707 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 708 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.026819977 | 0.3000915531  |
| ## 709 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 710 | -0.117934389 | 1.472779850  | 0.8290582307  | -0.338769733 | -0.3108442609 |
| ## 711 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 712 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 713 | -0.117934389 | 4.764821031  | 0.5295621655  | -0.338769733 | -0.3108442609 |
| ## 714 | -0.117934389 | -0.295168191 | 1.1515924548  | -0.338769733 | -0.3108442609 |
| ## 715 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.817427797  | -0.3108442609 |
| ## 716 | -0.117934389 | -0.295168191 | -0.2306970769 | 4.756409613  | 4.6724753199  |
| ## 717 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 718 | -0.117934389 | 0.893624457  | 0.2070279414  | -0.338769733 | -0.3108442609 |
| ## 719 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 720 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 721 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 722 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.101629923  | -0.3108442609 |
| ## 723 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 724 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.138329894  | 0.6235281605  |
| ## 725 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 726 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 727 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 728 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 729 | 11.357869925 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |

|        |              |              |               |              |               |
|--------|--------------|--------------|---------------|--------------|---------------|
| ## 730 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.052696628  | 0.4558202900  |
| ## 731 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 732 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 733 | 1.509070004  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 734 | -0.117934389 | -0.295168191 | 1.7736227440  | -0.338769733 | -0.3108442609 |
| ## 735 | -0.042007517 | 1.472779850  | 0.4374095301  | -0.338769733 | -0.3108442609 |
| ## 736 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 737 | -0.117934389 | -0.295168191 | 9.9291309810  | -0.338769733 | -0.3108442609 |
| ## 738 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 739 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.713296111  | 0.7193612294  |
| ## 740 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 741 | -0.117934389 | -0.295168191 | -0.2306970769 | 7.637357358  | -0.3108442609 |
| ## 742 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 743 | -0.117934389 | -0.295168191 | 0.7829819130  | -0.338769733 | -0.3108442609 |
| ## 744 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 745 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 746 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 747 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 748 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 749 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 750 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 751 | -0.117934389 | 2.844463676  | 0.9442490250  | -0.338769733 | -0.3108442609 |
| ## 752 | -0.117934389 | -0.295168191 | 1.2667832491  | -0.338769733 | -0.3108442609 |
| ## 753 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.178162413  | 0.8750899663  |
| ## 754 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 755 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 756 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 757 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 758 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.156828314  | 2.1328989951  |
| ## 759 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.425813002  | 1.1865474401  |
| ## 760 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.694946125  | -0.0233450543 |
| ## 761 | -0.117934389 | 9.367582312  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 762 | -0.117934389 | -0.295168191 | 0.5065240066  | -0.338769733 | -0.3108442609 |
| ## 763 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 764 | -0.117934389 | -0.295168191 | 1.6123556320  | -0.338769733 | -0.3108442609 |
| ## 765 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.444162988  | 1.2224848409  |
| ## 766 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 767 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 768 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.945877696  | 0.9709230351  |
| ## 769 | -0.117934389 | -0.295168191 | 0.9442490250  | -0.338769733 | -0.3108442609 |
| ## 770 | -0.117934389 | -0.295168191 | 1.1055161370  | -0.338769733 | -0.3108442609 |
| ## 771 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.933495938  | -0.3108442609 |
| ## 772 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.548146240  | -0.3108442609 |
| ## 773 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 774 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.020703315 | 0.3120706867  |
| ## 775 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 776 | -0.117934389 | -0.051313289 | 0.5526003244  | -0.338769733 | -0.3108442609 |
| ## 777 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 778 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.222553157 | -0.3108442609 |
| ## 779 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 780 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.130803229 | 0.5157159580  |
| ## 781 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.052696628  | 0.4558202900  |
| ## 782 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 783 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.477878845  | 2.0610241934  |



```

## 784 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 785 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 786 -0.117934389 5.953613680 -0.2306970769 -0.026819977 0.3000915531
## 787 0.348473537 1.015551908 -0.2306970769 -0.338769733 -0.3108442609
## 788 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 789 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.3108442609
## 790 0.272546666 0.802178869 -0.2306970769 -0.338769733 -0.3108442609
## 791 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 792 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.9110273671
## 793 -0.117934389 0.985070046 -0.2306970769 -0.338769733 -0.3108442609
## 794 -0.117934389 -0.295168191 -0.2306970769 1.178162413 1.6058171163
## 795 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.4438411564
## 796 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 797 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5157159580
## 798 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 0.1084254154
## 799 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 800 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 801 -0.117934389 -0.295168191 -0.2306970769 0.866212658 1.7495667196
## 802 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 803 8.873976553 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 804 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 805 -0.117934389 1.411816125 -0.2306970769 -0.338769733 -0.3108442609
## 806 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 807 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 808 -0.117934389 -0.295168191 0.1379134649 -0.338769733 -0.3108442609
## 809 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 810 -0.117934389 -0.295168191 -0.2306970769 1.863228544 2.1568572623
## 811 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 812 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 813 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 814 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 815 -0.117934389 -0.295168191 -0.2306970769 4.976609440 4.8880997248
## 816 -0.117934389 -0.295168191 -0.2306970769 4.976609440 4.8880997248
## 817 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 818 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 819 -0.117934389 -0.295168191 -0.2306970769 1.532928802 4.5766422510
## 820 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 821 -0.117934389 -0.295168191 -0.2306970769 1.722545321 1.3662344442
## 822 -0.117934389 -0.295168191 0.7599437541 -0.338769733 -0.3108442609
## 823 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 824 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 825 -0.117934389 2.051935243 -0.2306970769 -0.338769733 -0.3108442609
## 826 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 827 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 828 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 829 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 830 -0.117934389 -0.295168191 -0.2306970769 0.168913203 0.1803002170
## 831 -0.117934389 -0.295168191 -0.2306970769 0.652129492 0.9829021687
## 832 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 833 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 834 -0.117934389 -0.295168191 -0.2306970769 0.327946412 0.3360289539
## 835 -0.117934389 0.802178869 2.2804622390 -0.338769733 -0.3108442609
## 836 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 837 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 838 -0.117934389 0.375432790 -0.2306970769 1.025245866 -0.2269903256
## 839 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 840 -0.117934389 -0.295168191 1.3819740434 -0.338769733 -0.3108442609
## 841 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 842 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 843 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 844 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 845 -0.117934389 -0.295168191 -0.2306970769 0.499212945 -0.2030320584
## 846 -0.117934389 -0.295168191 -0.2306970769 0.713296111 1.1625891728
## 847 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609
## 848 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 849 -0.117934389 -0.295168191 -0.2306970769 3.055977610 3.0073757484
## 850 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 851 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 852 -0.117934389 0.314469064 -0.2306970769 1.343312284 -0.3108442609
## 853 -0.117934389 -0.295168191 -0.2306970769 0.860095996 2.0370659262
## 854 -0.117934389 -0.295168191 -0.2306970769 0.193379851 -0.3108442609
## 855 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 856 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 857 -0.117934389 -0.295168191 -0.2306970769 1.367778932 -0.3108442609
## 858 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 859 -0.117934389 -0.295168191 0.2070279414 -0.338769733 -0.3108442609
## 860 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 861 -0.117934389 1.503261713 0.2070279414 -0.338769733 -0.3108442609
## 862 -0.117934389 1.350852399 -0.2306970769 -0.338769733 -0.3108442609
## 863 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 864 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 865 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 866 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 867 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.1146726384
## 868 -0.117934389 -0.295168191 -0.2306970769 0.034346642 0.4198828892
## 869 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 870 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 871 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 872 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.3108442609
## 873 -0.117934389 -0.295168191 -0.2306970769 0.468629635 0.7433194966
## 874 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 875 -0.117934389 -0.051313289 0.1379134649 -0.338769733 -0.3108442609
## 876 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 877 -0.117934389 -0.295168191 -0.2306970769 -0.289836438 -0.2150111920
## 878 9.448851438 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 879 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.3108442609
## 880 -0.117934389 1.594707301 1.4280503611 -0.338769733 -0.3108442609
## 881 -0.117934389 -0.295168191 -0.2306970769 3.380160690 3.8459151010
## 882 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 883 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 884 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 885 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 886 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 887 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 888 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 889 0.109846226 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 890 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 891 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 892 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 893 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 894 -0.117934389 3.911328873 -0.2306970769 -0.338769733 -0.3108442609
## 895 -0.117934389 1.167961222 0.0457608294 -0.338769733 -0.3108442609
## 896 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 897 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 898 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 899 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 900 -0.117934389 -0.295168191 -0.2306970769 0.725529434 1.7735249868
## 901 -0.117934389 1.503261713 -0.0233536472 -0.283719776 -0.2030320584
## 902 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.5636324925
## 903 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 904 -0.117934389 1.381334262 -0.2306970769 -0.338769733 -0.3108442609
## 905 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 906 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 907 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 908 -0.117934389 0.527842104 1.0133635016 -0.338769733 -0.3108442609
## 909 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 910 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 911 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 912 -0.117934389 2.905427401 -0.2306970769 -0.338769733 -0.3108442609
## 913 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 914 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 915 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 916 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 917 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 918 -0.117934389 0.863142595 0.8290582307 -0.338769733 -0.3108442609
## 919 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 920 -0.117934389 -0.295168191 -0.2306970769 4.603493066 6.7328863004
## 921 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 922 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 923 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 924 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 925 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 926 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 927 -0.117934389 -0.295168191 0.6677911187 -0.338769733 -0.3108442609
## 928 -0.117934389 -0.295168191 -0.2306970769 0.921262614 -0.3108442609
## 929 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.9110273671
## 930 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 931 -0.117934389 1.503261713 0.2070279414 -0.338769733 -0.3108442609
## 932 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 933 -0.117934389 1.167961222 0.3222187357 -0.338769733 -0.3108442609
## 934 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 935 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 936 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 937 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 938 -0.117934389 0.070614162 0.0457608294 1.881578529 -0.3108442609
## 939 -0.117934389 -0.142758877 -0.2306970769 0.370763045 -0.3108442609
## 940 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 941 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 942 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 943 -0.117934389 -0.295168191 -0.2306970769 1.331078960 3.5104993599
## 944 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 945 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609

```

|        |              |              |               |              |               |
|--------|--------------|--------------|---------------|--------------|---------------|
| ## 946 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 947 | -0.117934389 | 0.893624457  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 948 | 9.687478749  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 949 | -0.117934389 | -0.295168191 | -0.2306970769 | 2.805194473  | 4.4808091822  |
| ## 950 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 951 | -0.117934389 | 1.198443085  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 952 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 953 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.149153214 | -0.3108442609 |
| ## 954 | -0.117934389 | 4.551447992  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 955 | -0.117934389 | -0.295168191 | -0.0233536472 | -0.338769733 | -0.3108442609 |
| ## 956 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.101629923  | 0.5516533589  |
| ## 957 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 958 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 959 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 960 | -0.117934389 | -0.142758877 | 1.6123556320  | -0.338769733 | -0.3108442609 |
| ## 961 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 962 | -0.117934389 | -0.295168191 | -0.2306970769 | 5.545458995  | -0.3108442609 |
| ## 963 | -0.117934389 | -0.295168191 | -0.2306970769 | 1.808178587  | 2.4922730033  |
| ## 964 | -0.117934389 | 2.051935243  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 965 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 966 | -0.117934389 | -0.112277015 | 1.3589358845  | -0.338769733 | -0.3108442609 |
| ## 967 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 968 | -0.117934389 | -0.295168191 | 0.1379134649  | -0.338769733 | -0.3108442609 |
| ## 969 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 970 | -0.117934389 | 1.167961222  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 971 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 972 | -0.117934389 | 0.649769555  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 973 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.370763045  | -0.3108442609 |
| ## 974 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 975 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.149153214 | -0.3108442609 |
| ## 976 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 977 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 978 | 2.322572200  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 979 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 980 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 981 | -0.117934389 | -0.295168191 | 0.3682950535  | -0.338769733 | -0.3108442609 |
| ## 982 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 983 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.052696628  | 0.5157159580  |
| ## 984 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 985 | -0.117934389 | -0.295168191 | 0.8520963896  | -0.338769733 | -0.3108442609 |
| ## 986 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.112453243 | 0.5756116261  |
| ## 987 | -0.117934389 | 0.893624457  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 988 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 989 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 990 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.902912629  | -0.3108442609 |
| ## 991 | -0.117934389 | -0.295168191 | -0.2306970769 | 0.101629923  | 0.5516533589  |
| ## 992 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 993 | -0.117934389 | 0.223023476  | 0.5526003244  | -0.338769733 | -0.3108442609 |
| ## 994 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 995 | 6.834797714  | 2.935909264  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 996 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 997 | -0.117934389 | 0.832660732  | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 998 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |
| ## 999 | -0.117934389 | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |

```

## 1000 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1001 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1002 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1003 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1004 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 1005 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1006 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1007 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1008 -0.117934389 -0.295168191 -0.2306970769 2.315861523 2.2886277320
## 1009 -0.117934389 -0.295168191 -0.2306970769 0.517562930 1.6058171163
## 1010 -0.117934389 0.649769555 -0.2306970769 -0.338769733 -0.3108442609
## 1011 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1012 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1013 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1014 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1015 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1016 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1017 -0.117934389 -0.295168191 0.5295621655 -0.338769733 -0.3108442609
## 1018 -0.117934389 -0.295168191 -0.2306970769 1.214862385 1.9771702582
## 1019 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1020 7.832693742 0.101096025 0.3682950535 -0.338769733 -0.3108442609
## 1021 -0.117934389 0.649769555 3.1559122757 -0.338769733 -0.3108442609
## 1022 -0.117934389 0.405914653 0.2991805769 -0.338769733 -0.3108442609
## 1023 -0.117934389 -0.295168191 -0.2306970769 7.307057616 -0.3108442609
## 1024 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1025 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1026 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1027 -0.117934389 -0.295168191 -0.2306970769 1.600212083 -0.3108442609
## 1028 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 1029 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1030 -0.117934389 -0.295168191 -0.2306970769 2.536061351 2.5042521369
## 1031 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1032 -0.117934389 -0.295168191 1.2667832491 -0.338769733 -0.3108442609
## 1033 -0.117934389 -0.295168191 -0.2306970769 0.572612887 1.4740466466
## 1034 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1035 -0.117934389 -0.295168191 -0.1155062826 -0.338769733 -0.3108442609
## 1036 -0.117934389 -0.295168191 -0.2306970769 2.652277926 1.3063387761
## 1037 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1038 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1039 -0.117934389 -0.295168191 1.2898214079 -0.338769733 -0.3108442609
## 1040 -0.117934389 -0.295168191 15.1127167249 -0.338769733 -0.3108442609
## 1041 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1042 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1043 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1044 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1045 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.4198828892
## 1046 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1047 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.1443628162
## 1048 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1049 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 1050 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1051 -0.117934389 2.966391127 -0.2306970769 -0.338769733 -0.3108442609
## 1052 -0.117934389 -0.295168191 -0.2306970769 3.055977610 3.0073757484
## 1053 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1054 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1055 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1056 -0.117934389 10.739266137 -0.2306970769 -0.338769733 -0.3108442609
## 1057 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1058 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1059 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1060 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1061 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 1062 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1063 -0.117934389 -0.295168191 -0.2306970769 -0.259253128 0.8151942982
## 1064 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1065 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.3719663547
## 1066 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1067 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1068 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1069 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 1070 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 1071 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1072 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1073 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1074 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 1075 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.8334206549
## 1076 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1077 -0.117934389 -0.203722603 -0.2306970769 0.382996369 1.1506100392
## 1078 -0.117934389 -0.295168191 -0.2306970769 3.875610302 3.8099777001
## 1079 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1080 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1081 -0.117934389 -0.295168191 -0.2306970769 2.138478328 4.5407048502
## 1082 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1083 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1084 0.478633889 1.381334262 -0.2306970769 -0.338769733 -0.3108442609
## 1085 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1086 -0.117934389 0.223023476 0.9442490250 -0.338769733 -0.3108442609
## 1087 -0.117934389 -0.295168191 -0.2306970769 0.933495938 -0.3108442609
## 1088 -0.117934389 1.106997497 0.8290582307 -0.338769733 -0.3108442609
## 1089 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1090 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 1.4740466466
## 1091 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1092 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1093 -0.117934389 -0.295168191 -0.2306970769 0.052696628 0.5157159580
## 1094 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1095 1.693463835 1.594707301 0.2300661003 -0.338769733 -0.3108442609
## 1096 -0.117934389 3.789401422 1.5432411554 -0.338769733 -0.3108442609
## 1097 -0.117934389 0.314469064 -0.2306970769 0.554262902 1.4381092458
## 1098 -0.117934389 -0.295168191 -0.2306970769 -0.271486452 -0.1790737912
## 1099 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1100 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1101 -0.117934389 -0.295168191 1.4280503611 -0.338769733 -0.3108442609
## 1102 -0.117934389 -0.295168191 -0.2306970769 0.756112744 -0.0832407223
## 1103 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1104 8.917363336 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1105 -0.117934389 0.588805829 -0.1385444415 -0.338769733 -0.3108442609
## 1106 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1107 -0.117934389 -0.295168191 -0.2306970769 11.894554025 -0.3108442609

```

```

## 1108 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1109 -0.117934389 -0.295168191 -0.2306970769 9.851588958 -0.3108442609
## 1110 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1111 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1112 -0.117934389 -0.295168191 -0.2306970769 0.401346355 1.8693580557
## 1113 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1114 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1115 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1116 -0.117934389 -0.295168191 -0.2306970769 0.407463017 3.5943532952
## 1117 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1118 -0.117934389 -0.295168191 0.1609516237 -0.338769733 -0.3108442609
## 1119 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1120 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1121 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1122 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1123 -0.117934389 -0.295168191 -0.2306970769 0.230079822 0.4318620228
## 1124 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 1125 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1126 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 -0.3108442609
## 1127 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.3108442609
## 1128 -0.117934389 -0.295168191 -0.2306970769 1.061945838 1.0547769704
## 1129 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 1130 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1131 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1132 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1133 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1134 -0.117934389 -0.295168191 -0.2306970769 2.358678156 4.9719536601
## 1135 -0.117934389 -0.295168191 -0.2306970769 0.126096570 0.5995698933
## 1136 -0.117934389 -0.295168191 -0.2306970769 -0.081869934 0.1922793506
## 1137 -0.117934389 3.819883285 1.5432411554 -0.338769733 -0.3108442609
## 1138 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1139 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1140 8.873976553 1.259406811 -0.2306970769 -0.338769733 -0.3108442609
## 1141 -0.117934389 -0.295168191 0.8520963896 -0.338769733 -0.3108442609
## 1142 -0.117934389 1.137479360 -0.2306970769 -0.338769733 -0.3108442609
## 1143 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1144 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1145 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1146 -0.117934389 2.051935243 0.3452568946 -0.338769733 -0.3108442609
## 1147 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1148 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1149 -0.117934389 -0.295168191 -0.2306970769 1.025245866 0.5756116261
## 1150 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1151 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1152 -0.117934389 -0.295168191 -0.2306970769 2.156828314 2.1328989951
## 1153 -0.117934389 -0.295168191 0.2991805769 -0.338769733 -0.3108442609
## 1154 -0.117934389 -0.295168191 -0.2306970769 0.731646096 0.0365506137
## 1155 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1156 -0.117934389 -0.295168191 5.4136518442 -0.338769733 -0.3108442609
## 1157 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1158 -0.117934389 -0.295168191 -0.2306970769 -0.155269876 -0.1311572568
## 1159 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1160 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1161 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609

```

```

## 1162 -0.117934389 -0.295168191 -0.2306970769 0.841746010 0.0125923465
## 1163 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 1164 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1165 -0.117934389 -0.295168191 4.1004767890 -0.338769733 -0.3108442609
## 1166 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1167 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1168 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1169 -0.117934389 -0.295168191 -0.2306970769 3.367927366 3.3188332222
## 1170 -0.117934389 -0.295168191 -0.2306970769 0.780579391 -0.3108442609
## 1171 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 2.2167529303
## 1172 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1173 -0.117934389 -0.295168191 -0.2306970769 1.422828889 0.8391525654
## 1174 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1175 -0.117934389 -0.295168191 -0.2306970769 0.352413060 0.1922793506
## 1176 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1177 -0.117934389 -0.295168191 -0.2306970769 2.927527711 1.5099840475
## 1178 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1179 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1180 -0.117934389 -0.295168191 0.8290582307 -0.338769733 -0.3108442609
## 1181 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1182 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1183 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1184 -0.117934389 1.503261713 0.0227226705 -0.338769733 -0.3108442609
## 1185 -0.117934389 -0.295168191 -0.2306970769 1.019129204 7.6672587218
## 1186 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1187 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1188 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1189 -0.117934389 -0.295168191 -0.2306970769 0.493096283 1.3183179097
## 1190 -0.117934389 -0.295168191 -0.2306970769 0.823396024 -0.1551155240
## 1191 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1192 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1193 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1194 -0.117934389 0.101096025 -0.2306970769 0.694946125 -0.3108442609
## 1195 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 1196 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1197 -0.117934389 -0.295168191 -0.2306970769 2.707327883 -0.3108442609
## 1198 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1199 -0.117934389 1.228924948 -0.2306970769 0.590962873 2.1209198615
## 1200 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1201 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1202 -0.117934389 -0.295168191 -0.2306970769 1.422828889 0.8391525654
## 1203 -0.117934389 1.777598478 1.3358977257 -0.338769733 -0.3108442609
## 1204 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1205 -0.117934389 -0.051313289 0.3682950535 -0.338769733 -0.3108442609
## 1206 -0.117934389 0.405914653 -0.1155062826 -0.338769733 -0.3108442609
## 1207 -0.117934389 -0.295168191 -0.2306970769 1.490112169 1.9292537237
## 1208 -0.117934389 -0.295168191 -0.2306970769 1.288262327 -0.3108442609
## 1209 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.7672777638
## 1210 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1211 3.645869106 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1212 -0.117934389 2.143380832 -0.2306970769 -0.338769733 -0.3108442609
## 1213 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1214 9.438004742 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1215 -0.117934389 -0.295168191 -0.2306970769 2.401494789 3.9058107690

```



```

## 1216 -0.117934389 -0.295168191 -0.2306970769 1.061945838 -0.3108442609
## 1217 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1218 -0.117934389 -0.295168191 -0.2306970769 0.052696628 -0.3108442609
## 1219 -0.117934389 1.655671027 -0.2306970769 -0.338769733 -0.3108442609
## 1220 -0.117934389 -0.295168191 1.7045082674 0.438046326 0.1922793506
## 1221 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1222 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1223 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1224 -0.117934389 -0.295168191 -0.2306970769 -0.014586653 0.3240498203
## 1225 -0.117934389 -0.295168191 -0.2306970769 1.227095708 1.2224848409
## 1226 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 2.4683147361
## 1227 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1228 -0.117934389 -0.295168191 -0.2306970769 0.572612887 1.4740466466
## 1229 -0.117934389 -0.295168191 -0.2306970769 1.019129204 2.3485234000
## 1230 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1231 -0.117934389 -0.295168191 -0.2306970769 1.245445694 2.7917513435
## 1232 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1233 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1234 -0.117934389 -0.295168191 -0.2306970769 1.373895593 0.9469647679
## 1235 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1236 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1237 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1238 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 1239 -0.117934389 -0.295168191 -0.2306970769 0.474746297 0.2162376178
## 1240 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1241 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1242 -0.117934389 1.167961222 0.0457608294 -0.338769733 -0.3108442609
## 1243 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1244 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1245 -0.117934389 -0.295168191 2.3956530333 -0.338769733 -0.3108442609
## 1246 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 1247 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1248 -0.117934389 -0.295168191 -0.2306970769 0.462512973 -0.3108442609
## 1249 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1250 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1251 -0.117934389 -0.295168191 -0.2306970769 0.646012830 -0.3108442609
## 1252 -0.117934389 -0.295168191 -0.2306970769 0.468629635 0.7433194966
## 1253 -0.117934389 -0.295168191 -0.2306970769 0.450279650 0.4558202900
## 1254 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 0.3000915531
## 1255 -0.117934389 1.167961222 1.1285542959 -0.338769733 -0.3108442609
## 1256 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1257 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1258 -0.117934389 -0.295168191 -0.2306970769 0.560379564 0.5636324925
## 1259 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1260 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1261 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1262 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1263 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1264 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1265 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1266 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1267 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 1268 -0.117934389 -0.295168191 5.4136518442 -0.338769733 -0.3108442609
## 1269 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1270 -0.117934389 -0.295168191 -0.2306970769 0.921262614 1.3302970434
## 1271 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1272 4.068890248 0.131577888 -0.2306970769 -0.338769733 -0.3108442609
## 1273 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1274 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1275 -0.117934389 0.040132299 -0.2306970769 1.624678731 -0.1790737912
## 1276 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1277 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1278 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 1279 -0.117934389 -0.295168191 -0.2306970769 7.637357358 -0.3108442609
## 1280 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1281 -0.117934389 1.990971518 -0.1155062826 -0.338769733 -0.3108442609
## 1282 -0.117934389 -0.295168191 -0.2306970769 2.052845062 2.3605025336
## 1283 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1284 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1285 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1286 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 1287 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1288 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1289 -0.117934389 -0.295168191 0.4834858478 -0.338769733 -0.3108442609
## 1290 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1291 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1292 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1293 -0.117934389 -0.295168191 -0.2306970769 0.052696628 0.4558202900
## 1294 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1295 -0.117934389 -0.295168191 -0.2306970769 0.866212658 1.7495667196
## 1296 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1297 -0.117934389 -0.295168191 -0.2306970769 1.942745148 -0.3108442609
## 1298 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1299 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.5157159580
## 1300 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1301 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1302 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1303 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1304 -0.117934389 -0.295168191 -0.2306970769 0.272896455 -0.3108442609
## 1305 0.554560760 1.594707301 -0.2306970769 -0.338769733 -0.3108442609
## 1306 -0.117934389 -0.295168191 8.0860782721 -0.338769733 -0.3108442609
## 1307 -0.117934389 -0.295168191 -0.2306970769 1.086412485 -0.3108442609
## 1308 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.0592824551
## 1309 -0.117934389 1.046033771 -0.2306970769 -0.338769733 -0.3108442609
## 1310 -0.117934389 -0.295168191 -0.2306970769 0.523679592 -0.3108442609
## 1311 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1312 -0.117934389 -0.295168191 -0.2306970769 1.979445120 2.7198765418
## 1313 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1314 -0.117934389 -0.295168191 -0.2306970769 1.820411911 -0.3108442609
## 1315 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1316 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1317 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1318 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.8334206549
## 1319 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1320 -0.117934389 -0.295168191 -0.2306970769 0.499212945 -0.2030320584
## 1321 -0.117934389 -0.295168191 -0.2306970769 -0.222553157 -0.3108442609
## 1322 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1323 -0.117934389 -0.295168191 -0.2306970769 1.679728687 -0.3108442609

```

```

## 1324 -0.117934389 -0.295168191 -0.2306970769 1.526812140 -0.3108442609
## 1325 -0.117934389 -0.295168191 -0.2306970769 0.994662557 2.3006068656
## 1326 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1327 -0.117934389 11.928058786 0.6908292775 -0.338769733 -0.3108442609
## 1328 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1329 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1330 -0.117934389 -0.295168191 -0.2306970769 2.077311710 0.5396742252
## 1331 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1332 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1333 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1334 -0.117934389 -0.295168191 -0.2306970769 0.486979621 0.8990482335
## 1335 1.216209213 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1336 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1337 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1338 -0.117934389 -0.295168191 -0.2306970769 2.156828314 2.1328989951
## 1339 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 1340 -0.117934389 -0.295168191 -0.2306970769 2.315861523 -0.3108442609
## 1341 0.793188071 0.985070046 -0.0463918060 -0.338769733 -0.3108442609
## 1342 -0.117934389 -0.295168191 -0.2306970769 0.780579391 1.5698797155
## 1343 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1344 -0.117934389 -0.295168191 -0.2306970769 -0.179736524 -0.3108442609
## 1345 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1346 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1347 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1348 -0.117934389 -0.295168191 -0.2306970769 0.193379851 0.7313403630
## 1349 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1350 -0.117934389 2.265308283 -0.0924681238 -0.338769733 -0.3108442609
## 1351 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1352 -0.117934389 -0.295168191 -0.2306970769 0.389113031 1.1146726384
## 1353 -0.117934389 0.771697006 2.9946451637 -0.338769733 -0.3108442609
## 1354 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 1355 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 -0.1071989896
## 1356 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.8214415213
## 1357 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.1311572568
## 1358 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1359 9.448851438 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1360 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1361 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1362 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1363 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 1364 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1365 -0.117934389 -0.295168191 -0.2306970769 0.297363103 -0.3108442609
## 1366 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1367 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 1368 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1369 -0.117934389 -0.295168191 2.6721109396 -0.338769733 -0.3108442609
## 1370 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1371 -0.117934389 -0.295168191 -0.2306970769 1.514578817 -0.3108442609
## 1372 -0.117934389 -0.295168191 -0.2306970769 -0.100219919 -0.3108442609
## 1373 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1374 -0.117934389 -0.295168191 -0.2306970769 2.792961149 -0.3108442609
## 1375 -0.117934389 -0.295168191 -0.2306970769 0.144446556 0.7073820958
## 1376 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1377 -0.117934389 0.802178869 -0.0233536472 1.789828601 -0.3108442609

```

```

## 1378 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1379 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.8631108327
## 1380 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1381 -0.117934389 2.692054362 0.5065240066 -0.338769733 -0.3108442609
## 1382 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1383 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1384 -0.117934389 -0.295168191 -0.2306970769 0.976312571 3.5464367608
## 1385 -0.117934389 1.899525929 1.9809661738 -0.338769733 -0.3108442609
## 1386 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1387 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.6235281605
## 1388 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.0592824551
## 1389 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.4740466466
## 1390 -0.117934389 -0.295168191 1.2437450902 -0.338769733 -0.3108442609
## 1391 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.6235281605
## 1392 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1393 -0.117934389 -0.295168191 -0.2306970769 1.802061925 3.8818525018
## 1394 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.8271734318
## 1395 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1396 -0.117934389 -0.295168191 -0.0694299649 -0.338769733 -0.3108442609
## 1397 -0.117934389 8.392162703 -0.2306970769 -0.338769733 -0.3108442609
## 1398 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1399 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1400 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1401 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 0.2881124195
## 1402 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1403 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1404 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1405 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1406 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1407 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1408 -0.117934389 -0.295168191 -0.2306970769 -0.106336581 -0.3108442609
## 1409 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1410 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1411 -0.117934389 1.167961222 -0.2306970769 -0.338769733 -0.3108442609
## 1412 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1413 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1414 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1415 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1416 -0.117934389 1.046033771 0.7829819130 -0.338769733 -0.3108442609
## 1417 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1418 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1419 -0.117934389 1.046033771 0.7829819130 -0.338769733 -0.3108442609
## 1420 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1421 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1422 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1423 -0.117934389 0.162059750 0.2300661003 -0.308186423 -0.2509485929
## 1424 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1425 -0.117934389 -0.295168191 2.6490727808 -0.338769733 -0.3108442609
## 1426 4.068890248 0.131577888 -0.2306970769 -0.338769733 -0.3108442609
## 1427 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1428 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1429 -0.117934389 0.344950927 -0.1155062826 0.915145953 0.2641541523
## 1430 -0.117934389 2.844463676 0.9442490250 -0.338769733 -0.3108442609
## 1431 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1432 -0.117934389 -0.295168191 -0.2306970769 0.340179736 0.3480080875
## 1433 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 1434 -0.117934389 -0.295168191 0.6677911187 -0.338769733 -0.3108442609
## 1435 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1436 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1437 -0.117934389 -0.051313289 0.5756384832 -0.338769733 -0.3108442609
## 1438 -0.117934389 -0.295168191 -0.2306970769 2.315861523 -0.3108442609
## 1439 -0.117934389 -0.295168191 -0.2306970769 2.927527711 1.5099840475
## 1440 -0.117934389 -0.295168191 8.0860782721 -0.338769733 -0.3108442609
## 1441 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1442 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1443 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 1444 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 1445 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 0.0006132129
## 1446 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1447 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1448 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1449 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1450 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1451 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1452 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 1453 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1454 -0.117934389 -0.295168191 -0.2306970769 0.126096570 -0.3108442609
## 1455 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1456 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609
## 1457 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1458 -0.117934389 -0.295168191 -0.1155062826 0.560379564 0.1204045490
## 1459 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1460 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1461 -0.117934389 -0.295168191 0.7369055953 -0.338769733 -0.3108442609
## 1462 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 1463 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1464 -0.117934389 -0.295168191 0.1609516237 -0.338769733 -0.3108442609
## 1465 -0.117934389 1.167961222 -0.2306970769 -0.338769733 -0.3108442609
## 1466 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1467 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1468 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1469 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1470 -0.117934389 -0.295168191 -0.2306970769 2.205761609 -0.3108442609
## 1471 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 1472 1.628383659 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1473 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1474 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1475 -0.117934389 1.137479360 -0.2306970769 -0.338769733 -0.3108442609
## 1476 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1477 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1478 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1479 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1480 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1481 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1482 -0.117934389 1.411816125 -0.2306970769 -0.338769733 -0.3108442609
## 1483 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1484 -0.117934389 -0.295168191 -0.2306970769 1.165929090 -0.3108442609
## 1485 -0.117934389 2.265308283 -0.0924681238 -0.338769733 -0.3108442609

```

```

## 1486 -0.117934389 3.179764166 1.0824779782 -0.338769733 -0.3108442609
## 1487 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1488 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1489 -0.117934389 -0.295168191 -0.2306970769 0.964079248 -0.0592824551
## 1490 -0.117934389 0.893624457 -0.2306970769 -0.338769733 -0.3108442609
## 1491 -0.117934389 -0.295168191 -0.2306970769 0.768346067 0.2282167514
## 1492 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1493 -0.117934389 -0.295168191 -0.2306970769 1.116995795 -0.3108442609
## 1494 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1495 -0.117934389 -0.295168191 5.1141557790 -0.338769733 -0.3108442609
## 1496 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1497 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1498 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 1499 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1500 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1501 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1502 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1503 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1504 -0.117934389 2.143380832 -0.2306970769 -0.338769733 -0.3108442609
## 1505 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.4438411564
## 1506 -0.117934389 -0.295168191 0.3913332123 -0.338769733 -0.3108442609
## 1507 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1508 -0.117934389 -0.295168191 -0.2306970769 0.909029291 0.9110273671
## 1509 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1510 9.958646147 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1511 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1512 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1513 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1514 -0.117934389 4.764821031 0.5295621655 -0.338769733 -0.3108442609
## 1515 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1516 -0.117934389 -0.295168191 -0.2306970769 2.273044890 3.7740402993
## 1517 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1518 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1519 -0.117934389 0.863142595 -0.2306970769 -0.338769733 -0.3108442609
## 1520 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1521 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1522 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1523 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1524 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1525 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 1526 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1527 -0.117934389 1.472779850 1.3358977257 -0.338769733 -0.3108442609
## 1528 -0.117934389 -0.295168191 -0.2306970769 2.242461580 1.9292537237
## 1529 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1530 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1531 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1532 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1533 -0.117934389 0.924106320 -0.2306970769 -0.338769733 -0.3108442609
## 1534 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1535 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1536 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1537 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1538 -0.117934389 -0.295168191 -0.2306970769 -0.326536409 -0.3108442609
## 1539 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1540 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1541 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1542 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1543 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1544 -0.117934389 -0.020831426 -0.2306970769 1.618562069 -0.3108442609
## 1545 -0.117934389 -0.295168191 -0.2306970769 1.037479190 1.4860257803
## 1546 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1547 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 1548 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1549 -0.117934389 -0.295168191 -0.2306970769 12.402236961 4.6724753199
## 1550 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1551 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1552 -0.117934389 -0.295168191 -0.2306970769 -0.063519948 -0.3108442609
## 1553 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1554 -0.117934389 -0.295168191 1.9118516972 -0.338769733 -0.3108442609
## 1555 -0.117934389 3.515064657 0.3452568946 -0.338769733 -0.3108442609
## 1556 -0.117934389 -0.295168191 0.6217148009 -0.338769733 -0.3108442609
## 1557 -0.117934389 2.631090636 -0.2306970769 -0.338769733 -0.3108442609
## 1558 -0.117934389 -0.295168191 -0.2306970769 8.395823431 -0.3108442609
## 1559 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1560 -0.117934389 -0.295168191 -0.2306970769 0.058813289 3.5943532952
## 1561 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1562 -0.117934389 -0.295168191 -0.2306970769 1.814295249 2.5042521369
## 1563 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1564 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1565 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1566 -0.117934389 -0.295168191 -0.2306970769 0.401346355 1.1386309056
## 1567 -0.117934389 3.454100931 -0.2306970769 -0.338769733 -0.3108442609
## 1568 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1569 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1570 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1571 -0.117934389 -0.295168191 -0.2306970769 0.266779793 0.0844671482
## 1572 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1573 -0.117934389 0.893624457 0.5526003244 -0.338769733 -0.3108442609
## 1574 -0.117934389 -0.295168191 0.8981727073 -0.338769733 -0.3108442609
## 1575 -0.117934389 -0.295168191 -0.2306970769 0.749996082 0.7552986302
## 1576 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1577 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1578 -0.117934389 -0.295168191 -0.2306970769 1.514578817 3.3188332222
## 1579 -0.117934389 -0.295168191 -0.2306970769 0.621546182 1.3662344442
## 1580 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1581 -0.117934389 -0.295168191 -0.2306970769 0.138329894 0.6834238285
## 1582 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1583 -0.117934389 -0.295168191 1.8427372206 -0.338769733 -0.3108442609
## 1584 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1585 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1586 -0.117934389 -0.295168191 -0.2306970769 1.159812428 1.8933163229
## 1587 -0.117934389 -0.295168191 1.0133635016 -0.338769733 -0.3108442609
## 1588 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1589 -0.117934389 -0.295168191 -0.2306970769 0.315713088 -0.3108442609
## 1590 -0.117934389 -0.295168191 0.4143713712 -0.338769733 -0.3108442609
## 1591 -0.117934389 1.960489655 -0.2306970769 -0.338769733 -0.3108442609
## 1592 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1593 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1594 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1595 -0.117934389 -0.295168191 0.9672871839 -0.338769733 -0.3108442609
## 1596 11.140936006 0.101096025 -0.2306970769 -0.338769733 -0.3108442609
## 1597 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1598 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1599 -0.117934389 1.228924948 1.0133635016 -0.338769733 -0.3108442609
## 1600 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1601 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 1602 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.5756116261
## 1603 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 1604 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1605 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 0.1084254154
## 1606 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1607 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1608 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1609 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1610 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1611 -0.117934389 -0.295168191 -0.2306970769 9.851588958 -0.3108442609
## 1612 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 1613 -0.117934389 0.893624457 0.6677911187 -0.338769733 -0.3108442609
## 1614 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1615 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1616 -0.117934389 1.990971518 -0.2306970769 -0.338769733 -0.3108442609
## 1617 -0.117934389 -0.295168191 0.5986766421 -0.338769733 -0.3108442609
## 1618 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1619 -0.117934389 -0.295168191 -0.2306970769 0.517562930 -0.3108442609
## 1620 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 1621 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 1622 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1623 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 1624 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 1625 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1626 -0.117934389 1.167961222 0.3222187357 -0.338769733 -0.3108442609
## 1627 -0.117934389 -0.295168191 -0.2306970769 1.924395163 -0.3108442609
## 1628 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1629 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1630 -0.117934389 -0.295168191 -0.2306970769 0.382996369 0.3959246220
## 1631 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1632 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 1633 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1634 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1635 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1636 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1637 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1638 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1639 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1640 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1641 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1642 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1643 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1644 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1645 -0.117934389 -0.295168191 -0.2306970769 1.300495651 -0.3108442609
## 1646 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1647 9.828485796 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```



```

## 1648 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1649 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1650 -0.117934389 -0.295168191 -0.2306970769 0.646012830 0.6474864277
## 1651 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1652 -0.117934389 0.771697006 2.9946451637 -0.338769733 -0.3108442609
## 1653 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1654 -0.117934389 1.625189164 -0.2306970769 -0.338769733 -0.3108442609
## 1655 -0.117934389 2.143380832 1.9118516972 -0.338769733 -0.3108442609
## 1656 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 0.4198828892
## 1657 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1658 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1659 0.218313186 -0.295168191 -0.0003154883 -0.338769733 -0.3108442609
## 1660 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 1661 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1662 -0.117934389 -0.295168191 -0.2306970769 3.037627625 1.1506100392
## 1663 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1664 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1665 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1666 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1667 -0.117934389 -0.295168191 -0.2306970769 1.618562069 -0.3108442609
## 1668 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1669 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1670 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1671 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1672 -0.117934389 -0.295168191 -0.2306970769 1.557395450 4.3250804453
## 1673 -0.117934389 -0.295168191 -0.2306970769 0.248429808 0.8391525654
## 1674 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1675 -0.117934389 -0.020831426 0.4374095301 -0.338769733 -0.3108442609
## 1676 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 1677 -0.117934389 -0.295168191 -0.2306970769 1.355545608 3.0073757484
## 1678 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 1679 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1680 -0.117934389 -0.295168191 -0.2306970769 -0.216436495 -0.0712615887
## 1681 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1682 5.901981863 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1683 -0.117934389 -0.295168191 -0.2306970769 1.881578529 1.8573789221
## 1684 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1685 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1686 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1687 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1688 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1689 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 1690 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 1691 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1692 -0.117934389 -0.295168191 0.3222187357 -0.338769733 -0.3108442609
## 1693 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1694 -0.117934389 0.924106320 0.2300661003 -0.338769733 -0.3108442609
## 1695 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.8271734318
## 1696 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1697 -0.117934389 0.527842104 1.0133635016 -0.338769733 -0.3108442609
## 1698 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1699 -0.117934389 -0.295168191 -0.2306970769 2.052845062 2.3605025336
## 1700 -0.117934389 -0.295168191 0.0457608294 -0.338769733 -0.3108442609
## 1701 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

|         |               |              |               |              |               |            |
|---------|---------------|--------------|---------------|--------------|---------------|------------|
| ## 1702 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1703 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1704 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1705 | 1.509070004   | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1706 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1707 | -0.117934389  | -0.295168191 | -0.1385444415 | -0.338769733 | -0.3108442609 |            |
| ## 1708 | -0.117934389  | -0.295168191 | -0.2306970769 | 0.694946125  | 1.2464431081  |            |
| ## 1709 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1710 | -0.117934389  | -0.295168191 | -0.2306970769 | 4.756409613  | 9.6677740343  |            |
| ## 1711 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1712 | -0.117934389  | -0.295168191 | -0.2306970769 | 1.098645809  | 0.1563419498  |            |
| ## 1713 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.173619862 | -0.3108442609 |            |
| ## 1714 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1715 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1716 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1717 | -0.117934389  | 2.448199459  | 0.4604476889  | -0.338769733 | -0.3108442609 |            |
| ## 1718 | -0.117934389  | -0.295168191 | 2.9485688460  | -0.338769733 | -0.3108442609 |            |
| ## 1719 | -0.117934389  | 5.343976424  | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1720 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1721 | -0.117934389  | -0.051313289 | 0.1609516237  | -0.338769733 | -0.3108442609 |            |
| ## 1722 | -0.117934389  | -0.295168191 | -0.2306970769 | -0.338769733 | -0.3108442609 |            |
| ## 1723 | -0.117934389  | -0.295168191 | -0.2306970769 | 0.279013117  | 0.2881124195  |            |
| ## 1724 | -0.117934389  | -0.295168191 | -0.2306970769 | 2.010028429  | 4.2891430444  |            |
| ##      | V27           | V28          | V29           | V30          | V31           | V32        |
| ## 1    | 0.1495767453  | 4.25879975   | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 2    | 0.0054137013  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 3    | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 4    | 0.5851998565  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 5    | 0.0586913480  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 6    | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 7    | -0.2170988231 | 0.54533777   | 0.62136144    | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 8    | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 9    | 2.0205623380  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 10   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 11   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 12   | -0.2170988231 | 1.31100003   | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 13   | -0.2014289270 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 14   | 0.1025670570  | 0.41134687   | 0.48714397    | 0.501042393  | 0.67081507    | 0.9931928  |
| ## 15   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 16   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 17   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 18   | 0.8265162562  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 19   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 20   | 6.0508596114  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 21   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 22   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 23   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 24   | -0.1544192388 | 0.14336508   | 0.21870903    | 0.198993166  | 0.33203456    | 0.5251295  |
| ## 25   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 26   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 27   | -0.2170988231 | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 28   | -0.2170988231 | -0.23946605  | -0.16476947   | 0.867816455  | -0.15193759   | -0.1435323 |
| ## 29   | 6.0508596114  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |
| ## 30   | 0.7324968797  | -0.23946605  | -0.16476947   | -0.232505731 | -0.15193759   | -0.1435323 |

```

## 31 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 32 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 33 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 34 -0.2170988231 2.26807786 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 35 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 36 -0.2170988231 -0.23946605 0.58301360 -0.232505731 -0.15193759 -0.1435323
## 37 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 38 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 39 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 40 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 41 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 42 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 43 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 44 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 45 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 46 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 47 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 48 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 49 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 50 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 51 -0.1074095505 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 52 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 53 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 54 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 55 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 56 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 57 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 58 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 59 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 60 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 61 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 62 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 63 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 64 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 65 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 66 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 67 -0.2170988231 2.01923763 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 68 -0.1638211764 -0.23946605 0.16118725 -0.232505731 -0.15193759 -0.1435323
## 69 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 70 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 71 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 72 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 73 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 74 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 75 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 76 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 77 -0.1293474050 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 78 -0.0698017999 -0.23946605 0.73640499 -0.232505731 -0.15193759 -0.1435323
## 79 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 80 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 81 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 82 0.2091223504 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 83 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 84 -0.2170988231 -0.23946605 -0.16476947 0.091118442 -0.15193759 -0.1435323

```

|        |               |             |             |              |             |            |
|--------|---------------|-------------|-------------|--------------|-------------|------------|
| ## 85  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 86  | 7.6178492201  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 87  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 88  | 0.1558447037  | 0.50705465  | 0.58301360  | 2.334912703  | 0.79180811  | 1.1603583  |
| ## 89  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 90  | -0.2170988231 | -0.23946605 | -0.16476947 | 5.053355751  | -0.15193759 | -0.1435323 |
| ## 91  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 92  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 93  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 94  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 95  | -0.2170988231 | -0.23946605 | 6.92958267  | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 96  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 97  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 98  | 1.0866365313  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 99  | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 100 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 101 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 102 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 103 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 104 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 105 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 106 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 107 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.016756283 | -0.15193759 | -0.1435323 |
| ## 108 | -0.2170988231 | 0.29649753  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 109 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 110 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 111 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 112 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 113 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 114 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 115 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 116 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 117 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 118 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 119 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 120 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 121 | -0.2170988231 | 5.56042560  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 122 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 123 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15       |            |

```

## 139 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 140 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 141 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 142 -0.0071222156 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 143 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 144 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 145 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 146 -0.0165241532 0.37306376 0.44879612 0.457892504 0.62241785 0.9263266
## 147 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 148 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 149 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 150 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 151 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 152 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 153 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 154 -0.2170988231 0.08594041 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 155 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 156 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 157 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 158 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 159 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 160 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 161 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 162 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 163 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 164 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 165 -0.2170988231 0.69847022 0.77475284 1.903413807 -0.15193759 -0.1435323
## 166 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 167 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 168 0.1464427661 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 169 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 170 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 171 -0.2170988231 -0.23946605 -0.16476947 0.134268331 -0.15193759 -0.1435323
## 172 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 173 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 174 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 175 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 176 -0.0133901740 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 177 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 178 -0.2170988231 3.09116480 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 179 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 180 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 181 -0.2170988231 3.58884527 -0.16476947 4.082483234 4.68778393 -0.1435323
## 182 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 183 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 184 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 185 -0.2170988231 0.04765730 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 186 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 187 0.3031417269 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 188 0.3501514152 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 189 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 190 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 191 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 192 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 193 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 194 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 195 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 196 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 197 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 198 -0.1387493427 0.23907286 1.06236171 0.306867890 -0.15193759 -0.1435323
## 199 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 200 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 201 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 202 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 203 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 204 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 205 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 206 0.2216582673 -0.23946605 -0.16476947 -0.232505731 -0.15193759 2.1967841
## 207 0.5099843553 4.20137508 4.28358106 4.772881468 5.46213937 7.6129449
## 208 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 209 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 210 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 211 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 212 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 213 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 214 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 215 0.1777825583 4.60334777 2.25114505 2.485937317 -0.15193759 -0.1435323
## 216 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 217 -0.2170988231 6.59406966 -0.16476947 7.469749571 8.48696531 -0.1435323
## 218 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 219 -0.2170988231 -0.23946605 -0.16476947 0.716791841 -0.15193759 -0.1435323
## 220 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 221 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 222 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 223 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 224 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 225 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 226 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 227 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 228 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 229 -0.2170988231 -0.23946605 0.44879612 -0.232505731 -0.15193759 -0.1435323
## 230 -0.2170988231 -0.23946605 0.46797005 -0.232505731 -0.15193759 -0.1435323
## 231 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 232 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 233 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 234 -0.2170988231 -0.04805049 0.21870903 0.198993166 -0.15193759 0.1907986
## 235 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 236 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 237 0.0962990986 0.71761178 0.79392677 0.846241510 1.05799279 1.5281223
## 238 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 239 -0.2170988231 0.37306376 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 240 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 241 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 242 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 243 0.9017317574 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 244 -0.2170988231 8.87191490 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 245 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 246 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 247 0.2874718309 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 248 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 249 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 250 0.0586913480 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 251 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 252 -0.0039882363 0.41134687 -0.16476947 0.501042393 -0.15193759 -0.1435323
## 253 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 254 4.2582234992 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 255 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 256 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 257 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 258 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 259 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 260 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 261 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 262 0.6290755655 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 263 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 264 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 265 0.7544347342 1.23443381 -0.16476947 1.428765021 1.71135519 -0.1435323
## 266 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 267 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 268 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 269 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 270 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 271 -0.1324813843 0.27735598 0.35292650 0.350017779 0.50142482 0.7591612
## 272 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 273 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 274 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 275 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 276 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 277 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 278 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 279 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 280 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 281 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 282 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 283 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 284 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 285 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 286 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 287 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 288 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 289 -0.1450173011 -0.23946605 -0.16476947 -0.232505731 0.40463038 -0.1435323
## 290 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 291 0.6071377110 4.79476334 4.87797273 5.441704758 6.21229620 8.6493708
## 292 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 293 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 294 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 295 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 296 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 297 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 298 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 299 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 300 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 301 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 302 0.5946017942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 303 0.2592660179 0.71761178 0.79392677 0.846241510 1.05799279 3.2332100
## 304 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 305 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 306 -0.2170988231 -0.23946605 0.85144854 1.493489855 -0.15193759 -0.1435323
## 307 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 308 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 309 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 310 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 311 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 312 -0.2170988231 0.67932866 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 313 0.1527107245 0.50705465 0.58301360 0.608917117 0.79180811 1.1603583
## 314 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 315 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 316 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 317 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 318 -0.2170988231 -0.23946605 4.62871171 -0.232505731 -0.15193759 -0.1435323
## 319 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 320 0.3344815191 1.44499093 1.52253591 1.666089414 1.97753988 2.7985798
## 321 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 322 -0.2170988231 3.47399593 -0.16476947 1.860263917 -0.15193759 -0.1435323
## 323 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 324 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 325 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 326 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 327 0.0022797221 0.43048843 0.50631790 1.277740407 0.69501368 1.0266259
## 328 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 329 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 330 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 331 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 332 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 333 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 334 0.0712272649 1.52155716 0.71723107 0.759941731 2.07433431 4.4702343
## 335 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 336 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 337 3.7003751985 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 338 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 339 -0.2170988231 3.78026084 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 340 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 341 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 342 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 343 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 344 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 345 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 346 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 347 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 348 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 349 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 350 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 351 -0.2170988231 -0.23946605 -0.16476947 0.155843276 -0.15193759 -0.1435323
## 352 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 353 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 354 -0.0635338415 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 355 -0.2170988231 8.06796952 -0.16476947 4.449257296 -0.15193759 -0.1435323
## 356 0.2874718309 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 357 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 358 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 10.83423025 -0.1435323
## 359 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 360 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 361 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 362 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 363 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 364 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 365 -0.2170988231 1.17700914 -0.16476947 1.364040186 1.63875937 -0.1435323
## 366 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 367 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 368 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 369 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 370 -0.2170988231 0.21993131 -0.16476947 -0.232505731 1.00959557 -0.1435323
## 371 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 372 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 373 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 374 -0.2170988231 0.23907286 0.06531763 0.026393607 -0.15193759 -0.1435323
## 375 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 376 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 377 -0.2170988231 -0.23946605 1.61840553 -0.232505731 -0.15193759 -0.1435323
## 378 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 379 -0.1606871972 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 380 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 381 0.1307728700 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 382 2.9168803942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 383 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 384 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 385 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 386 -0.2170988231 -0.23946605 2.74966709 3.046885882 -0.15193759 -0.1435323
## 387 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 388 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 389 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 390 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 391 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 392 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 393 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 394 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 395 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 396 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 397 0.0022797221 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 398 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 399 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 400 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 401 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 402 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 403 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 404 -0.0698017999 0.04765730 0.12283940 0.091118442 0.21104152 0.3579641
## 405 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 406 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 407 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 408 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 409 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 410 0.0148156390 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 411 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 412 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 413 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 414 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 415 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 416 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 417 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 418 -0.2170988231 1.50241560 -0.16476947 1.730814248 2.05013570 -0.1435323
## 419 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 420 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 421 0.2498640802 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 422 0.1401748076 -0.23946605 4.22605929 -0.232505731 -0.15193759 -0.1435323
## 423 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 424 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 425 -0.2170988231 -0.23946605 -0.16476947 7.059825620 -0.15193759 -0.1435323
## 426 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 427 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 428 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 429 0.1621126622 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 430 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 431 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 432 0.1527107245 0.50705465 0.58301360 0.608917117 0.79180811 1.1603583
## 433 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 434 0.8265162562 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 435 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 436 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 437 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 438 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 439 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 440 0.1934524543 1.00473513 1.08153564 1.169865683 1.42097190 2.0296187
## 441 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 442 -0.2170988231 2.99545702 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 443 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 444 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 445 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 446 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 447 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 448 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 449 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 450 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 451 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 452 -0.2170988231 1.31100003 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 453 -0.2170988231 -0.23946605 -0.16476947 1.148290738 -0.15193759 -0.1435323
## 454 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 455 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 456 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 457 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 458 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 459 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 460 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 461 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 462 -0.2076968855 -0.23946605 -0.14559554 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

|        |               |             |             |              |             |            |
|--------|---------------|-------------|-------------|--------------|-------------|------------|
| ## 517 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 518 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 519 | -0.2108308647 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 520 | -0.2014289270 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 521 | 1.1430481572  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 522 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 523 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 524 | -0.2014289270 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 525 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 526 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 527 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 528 | -0.2170988231 | 0.52619621  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 529 | 0.5099843553  | 4.20137508  | 4.28358106  | 4.772881468  | 5.46213937  | 7.6129449  |
| ## 530 | -0.2170988231 | 2.78489989  | -0.16476947 | -0.232505731 | 1.75975241  | -0.1435323 |
| ## 531 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 532 | -0.2170988231 | -0.23946605 | 17.26432809 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 533 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 534 | -0.1920269894 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 535 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 536 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 537 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 538 | -0.2170988231 | 0.60276244  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 539 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 540 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 541 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 542 | -0.1794910725 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 543 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 544 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 545 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 546 | -0.1920269894 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 547 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 548 | -0.2170988231 | -0.23946605 | 0.62136144  | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 549 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 550 | -0.2170988231 | -0.23946605 | -0.16476947 | 3.996183455  | -0.15193759 | -0.1435323 |
| ## 551 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 552 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 553 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 554 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 555 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.23        |             |            |

```

## 571 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 572 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 573 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 574 -0.0698017999 -0.23946605 0.73640499 -0.232505731 -0.15193759 -0.1435323
## 575 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 576 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 577 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 578 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 579 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 580 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 581 -0.1544192388 -0.23946605 0.21870903 -0.232505731 -0.15193759 -0.1435323
## 582 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 583 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 584 0.0273515558 1.25357536 1.33079666 1.450339965 1.73555380 2.4642489
## 585 -0.2170988231 -0.23946605 -0.06889984 -0.232505731 -0.15193759 -0.1435323
## 586 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 587 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 588 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 589 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 590 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 591 1.2746752843 8.87191490 8.96201869 10.037168005 11.36659962 15.7706193
## 592 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 593 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 594 0.0649593064 -0.23946605 3.28653698 -0.232505731 -0.15193759 -0.1435323
## 595 0.8703919653 1.40670782 1.48418806 1.622939524 1.92914266 2.7317136
## 596 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 597 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 598 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 599 -0.2170988231 -0.23946605 5.12723375 -0.232505731 -0.15193759 -0.1435323
## 600 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 601 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 602 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 603 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 604 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 605 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 606 -0.2170988231 0.85160267 -0.16476947 0.997266124 -0.15193759 -0.1435323
## 607 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 608 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 609 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 610 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 611 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 612 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 613 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 614 -0.0039882363 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 615 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 616 -0.2170988231 -0.23946605 -0.16476947 1.105140848 -0.15193759 -0.1435323
## 617 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 618 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 619 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 620 2.1929311950 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 621 -0.2170988231 -0.23946605 2.76884101 -0.232505731 -0.15193759 -0.1435323
## 622 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 623 -0.2170988231 -0.23946605 -0.16476947 0.457892504 -0.15193759 -0.1435323
## 624 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 625 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 626 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 627 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 628 0.0022797221 -0.23946605 -0.16476947 -0.232505731 1.54196494 -0.1435323
## 629 0.3846251866 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.9961856
## 630 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 631 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 632 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 633 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 634 -0.2170988231 0.58362088 -0.16476947 0.220568111 -0.15193759 -0.1435323
## 635 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 636 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 637 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 638 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 639 -0.2170988231 -0.23946605 -0.16476947 1.083565903 -0.15193759 -0.1435323
## 640 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 641 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 642 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 643 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 644 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 645 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 646 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 647 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 648 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 649 0.1621126622 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 650 0.3501514152 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 651 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 652 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 653 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 654 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 655 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 656 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 657 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 658 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 659 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 660 1.2746752843 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 661 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 662 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 663 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 664 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 665 0.0994330778 0.39220532 -0.16476947 1.213015572 -0.15193759 -0.1435323
## 666 0.0649593064 1.48327404 1.56088376 1.709239303 2.02593709 2.8654460
## 667 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 668 0.1809165375 2.19151164 -0.16476947 -0.232505731 -0.15193759 1.9627525
## 669 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 670 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 671 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 672 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 673 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 674 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 675 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 676 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 677 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 678 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 679 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 680 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 681 0.3344815191 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 682 -0.1763570933 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 683 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 684 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 685 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 686 -0.1199454674 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 687 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 688 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 689 -0.2170988231 -0.23946605 -0.16476947 7.189275289 -0.15193759 -0.1435323
## 690 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 691 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 692 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 693 -0.2170988231 -0.23946605 -0.16476947 0.479467448 0.64661646 -0.1435323
## 694 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 695 -0.2170988231 -0.23946605 0.79392677 0.306867890 -0.15193759 -0.1435323
## 696 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 697 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 698 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 699 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 700 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 701 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 702 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 703 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 704 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 705 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 706 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 707 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 708 0.2655339763 0.73675333 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 709 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 710 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 711 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 712 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 713 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 714 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 715 -0.2170988231 -0.23946605 0.10366548 0.716791841 -0.15193759 -0.1435323
## 716 1.0866365313 7.72342150 7.81158321 8.742671316 9.91468316 13.7646338
## 717 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 718 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 719 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 720 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 721 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 722 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 723 -0.2170988231 -0.23946605 0.56383967 -0.232505731 -0.15193759 -0.1435323
## 724 -0.2170988231 2.74661678 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 725 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 726 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 727 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 728 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 729 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 730 -0.2170988231 -0.23946605 -0.16476947 3.909883675 -0.15193759 -0.1435323
## 731 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 732 -0.1074095505 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 733 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 734 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 735 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 736 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 737 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 738 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 739 -0.2170988231 1.40670782 -0.16476947 1.622939524 1.92914266 -0.1435323
## 740 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 741 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 742 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 743 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 744 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 745 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 746 0.1683806206 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 747 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 748 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 749 0.6854871915 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 750 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 751 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 752 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 753 -0.2170988231 -0.23946605 1.73344908 1.903413807 -0.15193759 -0.1435323
## 754 -0.2170988231 -0.23946605 2.40453644 -0.232505731 -0.15193759 -0.1435323
## 755 0.2091223504 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 756 1.3498907855 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 757 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 758 -0.2170988231 3.66541150 -0.16476947 4.168783013 4.78457836 -0.1435323
## 759 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 760 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 761 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 762 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 763 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 764 0.0336195143 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 765 -0.0165241532 0.37306376 0.44879612 0.457892504 0.62241785 0.9263266
## 766 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 767 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 768 -0.2170988231 -0.23946605 6.00923429 -0.232505731 2.43731342 -0.1435323
## 769 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 770 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 771 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 772 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 773 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 774 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 775 -0.0760697583 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 776 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 777 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 778 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 779 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 780 -0.1638211764 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 781 -0.2170988231 -0.23946605 0.44879612 -0.232505731 -0.15193759 -0.1435323
## 782 0.2153903089 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 783 -0.2170988231 1.65554805 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 784 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 785 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 786 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 787 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 788 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 789 0.0712272649 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 790 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 791 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 792 -0.2170988231 0.23907286 0.81310069 0.867816455 -0.15193759 -0.1435323
## 793 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 794 -0.2170988231 -0.23946605 -0.16476947 0.069543497 -0.15193759 -0.1435323
## 795 -0.2170988231 0.96645201 -0.16476947 1.126715793 -0.15193759 -0.1435323
## 796 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 797 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 798 -0.2170988231 1.10044291 0.50631790 0.522617338 -0.15193759 -0.1435323
## 799 0.1339068492 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 800 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 801 -0.0635338415 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 802 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 803 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 804 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 805 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 806 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 807 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 808 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 809 -0.2170988231 0.37306376 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 810 -0.2170988231 -0.23946605 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 811 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 812 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 813 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 814 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 815 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 816 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 817 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 818 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 819 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 820 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 821 -0.1293474050 0.29649753 0.37210042 0.371592724 0.52562342 0.7925943
## 822 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 823 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 824 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 825 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 826 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 827 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 828 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 829 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 830 -0.2170988231 0.54533777 0.62136144 -0.232505731 -0.15193759 -0.1435323
## 831 0.1213709323 2.86146612 0.87062247 0.932541290 1.15478722 1.6618547
## 832 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 833 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 834 -0.0478639454 0.79417800 0.87062247 0.932541290 1.15478722 1.6618547
## 835 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 836 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 837 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 838 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 839 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 840 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 841 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 842 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 843 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 844 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 845 -0.2170988231 -0.23946605 -0.16476947 1.536639745 -0.15193759 -0.1435323
## 846 -0.1418833219 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 847 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 848 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 849 0.6510134201 5.06274513 10.47675875 5.743753985 6.55107671 9.1174341
## 850 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 851 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 852 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 853 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 854 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 855 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 856 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 857 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 858 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 859 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 860 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 861 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 862 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 863 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 864 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 865 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 866 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 867 -0.2170988231 0.88988579 -0.16476947 1.040416014 1.27578026 -0.1435323
## 868 -0.2170988231 -0.23946605 -0.16476947 5.053355751 -0.15193759 -0.1435323
## 869 0.2937397893 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 870 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 871 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 872 0.0054137013 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 873 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 874 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 875 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 876 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 877 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 878 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 879 -0.2170988231 0.16250664 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 880 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 881 0.0524233896 1.40670782 1.48418806 1.622939524 1.92914266 2.7317136
## 882 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 883 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 884 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 885 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 886 -0.2170988231 2.65090900 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 887 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 888 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 889 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 890 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 891 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 892 0.0273515558 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 893 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 894 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

|        |               |             |             |              |             |            |
|--------|---------------|-------------|-------------|--------------|-------------|------------|
| ## 895 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 896 | 0.5946017942  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 897 | 6.0508596114  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 898 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 899 | 1.0866365313  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 900 | -0.2170988231 | 3.09116480  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 901 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 902 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 903 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 904 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 905 | -0.0635338415 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 906 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 907 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 908 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 909 | 0.4786445631  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 910 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 911 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 912 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 913 | 0.9017317574  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 914 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 915 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 916 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 917 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 918 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 919 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 920 | 0.0116816597  | 1.15786758  | 1.23492704  | 1.342465241  | 1.61456076  | 2.2970834  |
| ## 921 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 922 | 0.1119689947  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 923 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 924 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 925 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 926 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 927 | -0.0948736337 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 928 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 929 | -0.2170988231 | 0.23907286  | 0.81310069  | 0.867816455  | -0.15193759 | -0.1435323 |
| ## 930 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 931 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 932 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## 933 | -0.2170988231 | -0.23946605 | -0.16476947 | 0.285        |             |            |

```

## 949 0.4974484384 1.94267140 0.37210042 2.227037979 2.60670367 0.7925943
## 950 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 951 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 952 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 953 -0.2170988231 -0.23946605 -0.16476947 0.436317559 -0.15193759 -0.1435323
## 954 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 955 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 956 -0.2170988231 3.91425173 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 957 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 958 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 959 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 960 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 961 0.0649593064 -0.23946605 1.56088376 -0.232505731 -0.15193759 -0.1435323
## 962 -0.0509979246 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 963 0.0555573688 4.23965820 0.94731816 2.291762814 1.25158165 1.7955870
## 964 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 965 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 966 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 967 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 968 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 969 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 970 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 971 0.4473047709 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 972 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 973 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 974 0.1151029739 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 975 -0.2170988231 0.94731046 -0.16476947 0.436317559 -0.15193759 -0.1435323
## 976 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 977 -0.2170988231 -0.23946605 0.87062247 -0.232505731 -0.15193759 -0.1435323
## 978 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 979 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 980 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 981 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 982 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 983 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 984 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 985 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.4278230
## 986 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 987 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 988 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 989 0.1840505167 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 990 -0.2170988231 0.62190399 -0.16476947 -0.232505731 0.38043178 -0.1435323
## 991 -0.2170988231 3.91425173 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 992 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 993 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 994 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 995 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 996 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 997 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 998 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 999 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1000 5.0041105529 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1001 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1002 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1003 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1004 0.5946017942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1005 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1006 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1007 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1008 -0.2170988231 8.06796952 -0.16476947 4.449257296 -0.15193759 -0.1435323
## 1009 -0.1544192388 0.14336508 0.21870903 0.198993166 0.33203456 0.5251295
## 1010 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1011 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1012 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1013 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1014 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1015 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1016 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1017 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1018 0.3814912074 0.96645201 1.04318779 1.126715793 1.37257469 1.9627525
## 1019 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1020 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1021 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1022 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1023 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1024 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1025 0.2937397893 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1026 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1027 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1028 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1029 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1030 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1031 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1032 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1033 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1034 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1035 -0.2170988231 -0.23946605 -0.06889984 -0.232505731 -0.15193759 -0.1435323
## 1036 -0.1324813843 0.27735598 0.35292650 0.350017779 0.50142482 0.7591612
## 1037 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1038 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1039 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1040 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1041 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1042 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1043 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1044 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1045 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1046 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1047 -0.0980076129 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1048 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1049 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1050 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1051 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1052 -0.2170988231 5.06274513 -0.16476947 5.743753985 6.55107671 -0.1435323
## 1053 -0.2170988231 -0.23946605 -0.16476947 1.622939524 -0.15193759 -0.1435323
## 1054 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1055 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1056 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

|    |      |               |             |             |              |             |            |
|----|------|---------------|-------------|-------------|--------------|-------------|------------|
| ## | 1111 | 0.0273515558  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1112 | -0.2170988231 | 0.90902734  | -0.16476947 | 1.061990959  | -0.15193759 | -0.1435323 |
| ## | 1113 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1114 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1115 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1116 | -0.2170988231 | -0.23946605 | -0.16476947 | 0.630492062  | -0.15193759 | -0.1435323 |
| ## | 1117 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1118 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1119 | 0.2091223504  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1120 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1121 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1122 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1123 | -0.2170988231 | 1.54069871  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1124 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1125 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1126 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1127 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1128 | -0.2170988231 | 6.34522943  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1129 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1130 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1131 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1132 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1133 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1134 | -0.2170988231 | 2.57434277  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1135 | 0.2592660179  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | 2.3973827  |
| ## | 1136 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1137 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1138 | 6.0508596114  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1139 | 0.0022797221  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1140 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1141 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | 1.4278230  |
| ## | 1142 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1143 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1144 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1145 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1146 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1147 | 6.0508596114  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0         |

```

## 1165 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1166 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1167 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1168 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1169 0.7324968797 5.56042560 5.64492972 6.304702551 7.18024051 9.9866944
## 1170 -0.2170988231 -0.23946605 -0.16476947 1.730814248 -0.15193759 -0.1435323
## 1171 0.2780698932 1.77039739 -0.16476947 0.889391400 -0.15193759 -0.1435323
## 1172 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1173 0.0837631817 1.59812338 0.75557892 1.838688972 2.17112874 1.4612561
## 1174 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1175 -0.1293474050 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1176 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1177 0.2592660179 1.21529225 1.29244881 4.708156634 1.68715659 2.3973827
## 1178 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1179 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1180 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1181 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1182 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1183 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1184 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1185 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1186 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1187 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1188 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1189 -0.2170988231 4.98617891 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1190 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1191 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1192 1.6256809566 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1193 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1194 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1195 -0.2170988231 -0.23946605 -0.16476947 1.515064800 -0.15193759 -0.1435323
## 1196 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1197 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1198 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1199 -0.2170988231 -0.23946605 2.74966709 3.046885882 -0.15193759 -0.1435323
## 1200 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1201 -0.1418833219 -0.23946605 -0.16476947 -0.232505731 0.42882899 -0.1435323
## 1202 0.0837631817 1.59812338 0.75557892 1.838688972 2.17112874 1.4612561
## 1203 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1204 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1205 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1206 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1207 -0.2170988231 3.34000504 -0.16476947 1.364040186 1.63875937 -0.1435323
## 1208 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1209 -0.2170988231 -0.23946605 1.56088376 -0.232505731 2.02593709 -0.1435323
## 1210 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1211 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1212 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1213 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1214 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1215 0.0837631817 1.59812338 1.06236171 0.457892504 0.62241785 0.9263266
## 1216 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1217 -0.2170988231 -0.23946605 3.74671117 -0.232505731 -0.15193759 -0.1435323
## 1218 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 1219 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1220 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1221 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1222 -0.2170988231 1.71297272 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1223 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1224 -0.2170988231 1.80868051 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1225 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1226 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1227 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1228 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1229 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1230 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1231 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1232 -0.2170988231 -0.23946605 0.39127435 -0.232505731 -0.15193759 -0.1435323
## 1233 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1234 0.2216582673 0.43048843 0.50631790 0.522617338 0.69501368 1.0266259
## 1235 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1236 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1237 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1238 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1239 0.0586913480 1.44499093 -0.16476947 1.666089414 -0.15193759 -0.1435323
## 1240 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1241 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1242 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1243 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1244 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1245 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1246 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1247 -0.0321940493 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1248 -0.2170988231 -0.23946605 -0.16476947 2.593812041 -0.15193759 -0.1435323
## 1249 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1250 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1251 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1252 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 1253 0.3908931450 0.98559357 1.06236171 1.148290738 1.39677330 1.9961856
## 1254 0.2655339763 0.73675333 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 1255 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1256 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1257 -0.2170988231 0.44962999 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1258 0.0116816597 1.15786758 2.65379746 1.342465241 1.61456076 2.2970834
## 1259 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1260 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1261 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1262 -0.2170988231 -0.23946605 -0.16476947 6.714626502 -0.15193759 -0.1435323
## 1263 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1264 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1265 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1266 -0.2170988231 -0.23946605 21.13746088 -0.232505731 -0.15193759 -0.1435323
## 1267 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1268 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1269 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1270 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 1271 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1272 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1273 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1274 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1275 -0.2170988231 -0.23946605 0.46797005 -0.232505731 -0.15193759 -0.1435323
## 1276 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1277 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1278 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1279 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 1280 0.1558447037 -0.23946605 2.11692757 -0.232505731 -0.15193759 -0.1435323
## 1281 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1282 -0.0447299662 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 1283 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1284 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1285 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1286 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1287 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1288 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1289 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1290 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1291 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1292 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1293 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1294 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1295 -0.0635338415 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 1296 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1297 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1298 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1299 -0.1982949478 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1300 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1301 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1302 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1303 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1304 0.4096970203 -0.23946605 -0.16476947 1.924988752 -0.15193759 3.1997769
## 1305 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1306 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1307 -0.0353280285 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1308 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1309 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1310 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1311 -0.2170988231 15.70545062 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1312 -0.2170988231 2.17237008 -0.16476947 2.485937317 2.89708696 -0.1435323
## 1313 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1314 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1315 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1316 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1317 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1318 -0.2170988231 1.46413249 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1319 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1320 -0.2170988231 -0.23946605 -0.16476947 1.536639745 -0.15193759 -0.1435323
## 1321 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1322 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1323 -0.2170988231 -0.23946605 -0.16476947 3.327360165 -0.15193759 -0.1435323
## 1324 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1325 -0.2170988231 0.79417800 -0.16476947 2.119163255 -0.15193759 -0.1435323
## 1326 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1327 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1328 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1329 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1330 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1331 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1332 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1333 0.4347688541 -0.23946605 3.82340687 -0.232505731 -0.15193759 -0.1435323
## 1334 -0.0071222156 0.39220532 0.46797005 0.479467448 0.64661646 0.9597597
## 1335 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1336 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1337 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1338 -0.2170988231 3.66541150 -0.16476947 4.168783013 4.78457836 -0.1435323
## 1339 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1340 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1341 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1342 -0.2170988231 -0.23946605 0.33375257 -0.232505731 0.47722621 -0.1435323
## 1343 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1344 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 1345 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1346 0.3470174360 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.8624532
## 1347 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1348 -0.2170988231 3.11030636 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1349 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1350 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1351 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1352 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1353 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1354 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1355 -0.2170988231 -0.23946605 -0.16476947 0.134268331 -0.15193759 -0.1435323
## 1356 -0.2170988231 1.46413249 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1357 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1358 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 1359 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1360 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1361 0.0743612441 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1362 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1363 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1364 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1365 -0.2170988231 -0.23946605 0.48714397 0.501042393 -0.15193759 -0.1435323
## 1366 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1367 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1368 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1369 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1370 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1371 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1372 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1373 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1374 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1375 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1376 0.9424734873 4.46935688 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1377 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.06584988 -0.1435323
## 1378 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1379 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1380 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

```

## 1435 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1436 -0.2170988231 -0.23946605 -0.16476947 7.059825620 -0.15193759 -0.1435323
## 1437 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1438 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1439 0.2592660179 1.21529225 1.29244881 4.708156634 1.68715659 2.3973827
## 1440 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1441 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1442 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1443 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1444 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1445 -0.2170988231 -0.23946605 -0.16476947 0.047968552 -0.15193759 -0.1435323
## 1446 0.1777825583 -0.23946605 2.25114505 -0.232505731 -0.15193759 -0.1435323
## 1447 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1448 0.4473047709 -0.23946605 3.90010257 -0.232505731 -0.15193759 -0.1435323
## 1449 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1450 0.1025670570 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1451 0.2435961218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1452 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1453 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1454 0.2592660179 1.21529225 1.29244881 3.046885882 1.68715659 2.3973827
## 1455 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1456 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1457 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1458 -0.2170988231 -0.14375827 -0.16476947 0.220568111 0.09004849 -0.1435323
## 1459 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1460 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1461 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1462 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1463 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1464 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1465 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1466 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1467 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1468 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1469 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1470 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1471 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1472 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1473 0.0022797221 -0.23946605 -0.16476947 -0.232505731 1.54196494 -0.1435323
## 1474 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1475 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1476 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1477 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1478 -0.1669551556 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1479 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1480 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1481 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1482 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1483 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1484 -0.2170988231 -0.23946605 -0.16476947 2.421212483 -0.15193759 -0.1435323
## 1485 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1486 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1487 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1488 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1489 -0.1512852596 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1490 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1491 -0.2170988231 -0.23946605 -0.16476947 1.709239303 -0.15193759 -0.1435323
## 1492 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1493 -0.2170988231 8.87191490 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1494 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1495 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1496 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1497 5.0041105529 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1498 -0.2170988231 -0.23946605 -0.16476947 -0.016756283 -0.15193759 -0.1435323
## 1499 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1500 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1501 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1502 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1503 0.0680932856 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1504 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1505 0.3814912074 0.96645201 1.04318779 1.126715793 1.37257469 1.9627525
## 1506 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1507 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1508 0.4222329372 3.66541150 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1509 -0.0008542571 -0.23946605 1.15823134 -0.232505731 -0.15193759 -0.1435323
## 1510 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1511 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1512 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1513 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1514 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1515 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1516 0.5851998565 1.38756626 1.46501413 1.601364579 1.90494405 2.6982805
## 1517 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1518 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1519 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1520 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1521 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1522 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1523 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1524 -0.2170988231 2.63176744 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1525 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1526 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1527 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1528 0.0743612441 0.64104555 1.61840553 0.759941731 0.96119836 1.3943899
## 1529 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1530 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1531 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1532 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1533 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1534 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1535 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1536 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1537 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1538 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1539 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1540 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1541 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1542 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

|    |      |               |             |             |              |             |            |
|----|------|---------------|-------------|-------------|--------------|-------------|------------|
| ## | 1543 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1544 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1545 | -0.2170988231 | 1.19615069  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1546 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1547 | -0.2170988231 | 0.37306376  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1548 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1549 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1550 | 0.6760852538  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1551 | -0.2170988231 | 0.29649753  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1552 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1553 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1554 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1555 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1556 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1557 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1558 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1559 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1560 | -0.2170988231 | -0.23946605 | -0.16476947 | 1.169865683  | -0.15193759 | -0.1435323 |
| ## | 1561 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1562 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1563 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1564 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1565 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1566 | -0.2170988231 | 4.41193221  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1567 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1568 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1569 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1570 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1571 | -0.2170988231 | 1.02387668  | -0.16476947 | 0.479467448  | -0.15193759 | -0.1435323 |
| ## | 1572 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1573 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1574 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1575 | 0.3407494776  | 1.46413249  | -0.16476947 | 1.687664359  | -0.15193759 | -0.1435323 |
| ## | 1576 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1577 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1578 | -0.2170988231 | 5.56042560  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1579 | -0.2170988231 | -0.23946605 | -0.16476947 | 0.134268331  | -0.15193759 | -0         |

|    |      |               |             |             |              |             |            |
|----|------|---------------|-------------|-------------|--------------|-------------|------------|
| ## | 1597 | 0.0085476805  | -0.23946605 | 1.21575311  | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1598 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1599 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1600 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1601 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1602 | -0.1794910725 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1603 | -0.2170988231 | 8.25938509  | 4.09184182  | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1604 | 6.0508596114  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1605 | 0.0054137013  | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | 1.0266259  |
| ## | 1606 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1607 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1608 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1609 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1610 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1611 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1612 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1613 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1614 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1615 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1616 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1617 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1618 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1619 | 0.2216582673  | 5.13931136  | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1620 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1621 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1622 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1623 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1624 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1625 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1626 | -0.2170988231 | -0.23946605 | -0.16476947 | 0.285292945  | -0.15193759 | -0.1435323 |
| ## | 1627 | -0.2170988231 | -0.23946605 | -0.16476947 | 7.750223854  | -0.15193759 | -0.1435323 |
| ## | 1628 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1629 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1630 | -0.2170988231 | 0.88988579  | -0.16476947 | 1.666089414  | -0.15193759 | -0.1435323 |
| ## | 1631 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1632 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0.1435323 |
| ## | 1633 | -0.2170988231 | -0.23946605 | -0.16476947 | -0.232505731 | -0.15193759 | -0         |



```

## 1651 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1652 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1653 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1654 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1655 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1656 -0.1857590310 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1657 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1658 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1659 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1660 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1661 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1662 0.1652466414 0.92816890 1.00483994 3.737284117 1.32417747 1.8958863
## 1663 3.2647520873 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1664 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1665 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1666 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1667 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1668 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1669 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1670 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1671 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1672 0.7544347342 1.23443381 -0.16476947 1.428765021 1.71135519 -0.1435323
## 1673 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1674 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1675 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1676 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1677 0.2153903089 5.06274513 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1678 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1679 0.4692426255 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1680 -0.2170988231 0.54533777 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1681 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1682 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1683 -0.2170988231 -0.23946605 -0.16476947 7.599199240 -0.15193759 -0.1435323
## 1684 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1685 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1686 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1687 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1688 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1689 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1690 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1691 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1692 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1693 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1694 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1695 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1696 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1697 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1698 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1699 -0.0447299662 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 1700 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1701 0.0868971610 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1702 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1703 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 0.8928936
## 1704 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1705 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1706 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1707 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1708 -0.2170988231 -0.14375827 -0.16476947 0.004818662 0.23524013 -0.1435323
## 1709 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1710 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1711 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1712 0.1495767453 0.50705465 0.58301360 1.450339965 0.79180811 1.1603583
## 1713 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 1.15478722 -0.1435323
## 1714 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1715 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1716 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1717 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1718 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1719 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1720 0.5851998565 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1721 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1722 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1723 1.5222596425 0.71761178 0.79392677 0.846241510 1.05799279 1.5281223
## 1724 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
##          V33          V34          V35          V36          V37          V38
## 1      1.964984278 -0.14625708 1.835428012 -0.24840201 -0.32331505 -0.06046324
## 2      -0.153528234 0.21921770 -0.202441590 0.99601659 -0.32331505 -0.06046324
## 3      -0.153528234 -0.14625708 -0.202441590 -0.08954006 -0.16803675 -0.06046324
## 4      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 5      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 6      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 7      -0.153528234 -0.14625708 0.511683655 0.83715464 0.73775338 -0.06046324
## 8      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 9      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 10     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 11     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 12     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 13      0.860460661 -0.14625708 -0.202441590 -0.24840201 1.56590435 -0.06046324
## 14     -0.153528234 0.98339224 0.389759833 0.65181570 0.55659535 -0.06046324
## 15     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 16     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 17     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 18     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 19     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 20     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 21     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 22     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 23     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 24     -0.153528234 0.51824252 0.494265966 0.28113782 2.26465673 -0.06046324
## 25     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 26     -0.153528234 -0.14625708 -0.202441590 0.33409181 0.03900100 -0.06046324
## 27     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 28      3.576502343 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 29     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 30     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 31     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 32     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 33     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

|       |              |             |              |             |             |             |
|-------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 34 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 35 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 36 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 37 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 4.64559077  | -0.06046324 |
| ## 38 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 39 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 40 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 41 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 42 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 43 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 44 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 45 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 46 | -0.153528234 | 2.11304155  | 0.981961256  | 1.55203341  | 1.43650576  | -0.06046324 |
| ## 47 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.97997983  | -0.06046324 |
| ## 48 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 49 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 50 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 51 | 0.480214825  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 52 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 53 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 54 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 55 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 4.12799641  | -0.06046324 |
| ## 56 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 57 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 58 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 59 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 60 | 1.620952332  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 61 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 62 | 1.783914833  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 63 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 64 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 65 | -0.153528234 | 14.27338413 | 7.356835397  | 11.24261227 | -0.32331505 | -0.06046324 |
| ## 66 | -0.153528234 | -0.14625708 | -0.202441590 | 0.65181570  | 2.36817560  | -0.06046324 |
| ## 67 | 0.914781495  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 68 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 69 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 70 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.91164968  | -0.06046324 |
| ## 71 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 72 | -0.153528234 | 1.31564203  | 1.330315034  | 0.91658562  | -0.32331505 | -0.06046324 |
| ## 73 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 74 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 75 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 76 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 77 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.15182886  | -0.06046324 |
| ## 78 | 0.697498160  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 79 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 80 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 81 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 82 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.43650576  | -0.06046324 |
| ## 83 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 84 | 0.950995384  | -0.14625708 | -0.202441590 | 0.14875287  | 2.83401052  | -0.06046324 |
| ## 85 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.66011422  | -0.06046324 |
| ## 86 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 87 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 88  | -0.153528234 | 1.14951713  | 0.476848277  | 0.78420066  | 0.68599394  | -0.06046324 |
| ## 89  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.06488071  | -0.06046324 |
| ## 90  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.25534773  | -0.06046324 |
| ## 91  | 1.476096776  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 92  | 4.246459292  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 93  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 94  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 95  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 96  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 97  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 98  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 99  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 100 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 101 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 102 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 103 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 104 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 105 | -0.153528234 | -0.14625708 | 3.072083925  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 106 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 107 | -0.153528234 | -0.14625708 | -0.202441590 | 0.01636791  | 0.19427930  | -0.06046324 |
| ## 108 | -0.153528234 | -0.14625708 | -0.202441590 | 2.00214227  | -0.32331505 | -0.06046324 |
| ## 109 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 110 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 111 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 112 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 113 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 114 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 115 | 0.226717602  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 116 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 117 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 118 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.45307648  | -0.06046324 |
| ## 119 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 8.91574421  | -0.06046324 |
| ## 120 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 121 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 122 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 123 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.74706237  | -0.06046324 |
| ## 124 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 125 | 6.672789861  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 126 | -0.153528234 | -0.14625708 | 0.285253699  | -0.24840201 | 1.12594915  | -0.06046324 |
| ## 127 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.58247507  | -0.06046324 |
| ## 128 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 129 | 1.675273166  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 130 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 131 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 132 | -0.153528234 | -0.14625708 | -0.202441590 | 1.18135553  | -0.32331505 | -0.06046324 |
| ## 133 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 134 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 135 | -0.153528234 | -0.14625708 | -0.202441590 | 0.57238473  | 0.47895620  | -0.06046324 |
| ## 136 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 137 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 138 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 139 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 140 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 141 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 142 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 143 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 144 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 145 | -0.153528234 | -0.14625708 | -0.202441590 | 0.25466083  | -0.32331505 | -0.06046324 |
| ## 146 | 1.005316217  | 0.91694228  | 0.354924455  | 0.59886172  | 2.16113786  | -0.06046324 |
| ## 147 | -0.153528234 | -0.14625708 | -0.202441590 | -0.01010908 | 0.14251987  | -0.06046324 |
| ## 148 | 0.190503713  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 0.40326746  |
| ## 149 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 150 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 151 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 152 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 153 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 154 | 0.154289824  | -0.14625708 | 0.250418322  | -0.03658607 | 1.72118266  | -0.06046324 |
| ## 155 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 156 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 157 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 158 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 159 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 160 | -0.153528234 | -0.14625708 | 1.696086501  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 161 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 162 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 163 | -0.153528234 | -0.14625708 | 0.128494499  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 164 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 165 | -0.153528234 | -0.14625708 | 0.651025167  | 1.04897057  | -0.32331505 | -0.06046324 |
| ## 166 | 0.136182879  | -0.14625708 | -0.202441590 | 0.41352278  | 0.32367789  | -0.06046324 |
| ## 167 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 168 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 169 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 170 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 171 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 172 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 173 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 174 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.34955761  | -0.06046324 |
| ## 175 | 0.679391215  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 176 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 177 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.43650576  | -0.06046324 |
| ## 178 | -0.153528234 | -0.14625708 | 0.546519033  | -0.24840201 | 3.06692798  | -0.06046324 |
| ## 179 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 180 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 181 | -0.153528234 | -0.14625708 | 3.281096192  | 5.04699628  | -0.32331505 | -0.06046324 |
| ## 182 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 183 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 184 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 185 | 0.118075934  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 186 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 187 | -0.153528234 | 1.68111681  | 0.755531300  | 1.20783252  | 1.10006943  | -0.06046324 |
| ## 188 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 189 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 190 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 5.42198230  | -0.06046324 |
| ## 191 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 192 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 193 | 0.154289824  | -0.14625708 | -0.202441590 | -0.24840201 | 7.00064509  | -0.06046324 |
| ## 194 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 195 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

```

## 196 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 197 1.150171774 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 198 -0.153528234 -0.14625708 0.006570677 1.10192456 -0.32331505 -0.06046324
## 199 -0.153528234 -0.14625708 -0.202441590 0.73124668 1.59178407 -0.06046324
## 200 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 201 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 202 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 203 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 204 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 205 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 206 -0.153528234 2.17949151 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 207 -0.153528234 7.56193822 3.838462237 5.89426001 -0.32331505 -0.06046324
## 208 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 209 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 210 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 211 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 212 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 213 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 214 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 215 -0.153528234 -0.14625708 1.992187213 -0.24840201 -0.32331505 -0.06046324
## 216 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 217 -0.153528234 -0.14625708 6.015673351 9.20388393 -0.32331505 -0.06046324
## 218 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 219 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 220 0.462107881 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 221 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 222 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 223 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 224 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 225 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 226 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 227 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 228 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 229 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 230 0.045648156 -0.14625708 -0.202441590 2.08157324 0.81539253 -0.06046324
## 231 -0.153528234 -0.14625708 -0.202441590 1.65794138 -0.32331505 -0.06046324
## 232 -0.153528234 -0.14625708 0.842619745 -0.24840201 -0.32331505 -0.06046324
## 233 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 234 1.113957885 -0.14625708 -0.028264701 0.01636791 -0.32331505 -0.06046324
## 235 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 236 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 237 -0.153528234 1.51499191 0.668442855 1.07544757 0.97067084 -0.06046324
## 238 -0.153528234 -0.14625708 -0.202441590 0.28113782 0.19427930 -0.06046324
## 239 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 240 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 241 1.476096776 -0.14625708 -0.202441590 -0.24840201 1.41062604 -0.06046324
## 242 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 243 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 244 4.155924569 -0.14625708 3.942968371 -0.24840201 -0.32331505 -0.06046324
## 245 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 246 -0.153528234 -0.14625708 -0.202441590 5.04699628 4.85262851 -0.06046324
## 247 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 248 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 249 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 250 -0.153528234 -0.14625708 -0.202441590 2.08157324 1.95410012 -0.06046324
## 251 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.45307648 -0.06046324
## 252 -0.153528234 -0.14625708 0.389759833 -0.24840201 -0.32331505 -0.06046324
## 253 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 254 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 255 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 256 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 257 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 258 -0.153528234 -0.14625708 -0.202441590 0.06932189 -0.32331505 -0.06046324
## 259 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.03863816 -0.06046324
## 260 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 261 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 262 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 263 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 4.57684376
## 264 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 265 -0.153528234 -0.14625708 2.497300191 1.79032633 -0.32331505 -0.06046324
## 266 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 267 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.06488071 -0.06046324
## 268 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 269 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 270 -0.153528234 -0.14625708 1.696086501 -0.24840201 -0.32331505 -0.06046324
## 271 -0.153528234 0.75081738 0.267836011 0.46647676 -0.32331505 -0.06046324
## 272 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 273 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 274 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 275 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 276 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.33503416 -0.06046324
## 277 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 278 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 279 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 280 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 281 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 282 -0.153528234 1.28241705 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 283 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 284 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 285 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 286 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 287 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 288 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.45512375 -0.06046324
## 289 -0.153528234 -0.14625708 0.198165255 -0.24840201 -0.32331505 -0.06046324
## 290 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 291 -0.153528234 8.59191259 4.378410593 6.71504674 -0.32331505 -0.06046324
## 292 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 293 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 294 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 295 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 296 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 297 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 298 -0.153528234 -0.14625708 -0.202441590 0.86363163 -0.32331505 -0.06046324
## 299 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 300 -0.153528234 -0.14625708 0.111076810 -0.24840201 -0.32331505 -0.06046324
## 301 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 302 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 303 -0.153528234 3.20946588 0.668442855 1.07544757 0.97067084 -0.06046324

```

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 304 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 305 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 306 | -0.153528234 | -0.14625708 | -0.202441590 | 1.86975731  | 0.34955761  | -0.06046324 |
| ## 307 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 0.50631873  |
| ## 308 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 309 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 310 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 311 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 312 | -0.153528234 | -0.14625708 | -0.202441590 | 0.38704579  | -0.32331505 | -0.06046324 |
| ## 313 | 0.552642604  | 1.14951713  | 0.476848277  | 0.78420066  | 1.69530294  | -0.06046324 |
| ## 314 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 5.42198230  | -0.06046324 |
| ## 315 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.80813080  | -0.06046324 |
| ## 316 | 0.462107881  | -0.14625708 | -0.202441590 | -0.24840201 | 0.24603874  | -0.06046324 |
| ## 317 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 318 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 319 | -0.153528234 | -0.14625708 | -0.202441590 | 1.28726350  | -0.32331505 | -0.06046324 |
| ## 320 | -0.153528234 | 2.77754114  | 1.330315034  | 2.08157324  | 1.95410012  | -0.06046324 |
| ## 321 | 0.262931491  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 322 | -0.153528234 | -0.14625708 | 3.176590059  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 323 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 324 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 325 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.90234068  | -0.06046324 |
| ## 326 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 327 | 0.480214825  | 1.01661721  | 0.407177522  | 0.67829269  | 0.58247507  | -0.06046324 |
| ## 328 | -0.153528234 | -0.14625708 | 5.075118150  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 329 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 330 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 331 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 332 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 333 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 334 | -0.153528234 | 4.43879013  | 1.399985790  | 0.96953960  | -0.32331505 | -0.06046324 |
| ## 335 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.45307648  | 7.77143303  |
| ## 336 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 337 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 338 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 339 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 340 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 341 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 342 | -0.153528234 | 0.25244268  | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 343 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 344 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 345 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 346 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 347 | 0.208610657  | -0.14625708 | -0.202441590 | -0.24840201 | 0.86715197  | -0.06046324 |
| ## 348 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 349 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 350 | 32.764896956 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 351 | -0.153528234 | -0.14625708 | -0.202441590 | 0.73124668  | -0.32331505 | -0.06046324 |
| ## 352 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.85058124  | -0.06046324 |
| ## 353 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 354 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 4.82674879  | -0.06046324 |
| ## 355 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 356 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 357 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |



|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 358 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 359 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 360 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 361 | 1.783914833  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 362 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 363 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 364 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 365 | -0.153528234 | -0.14625708 | 1.086467389  | 1.71089536  | -0.32331505 | -0.06046324 |
| ## 366 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 4.05035726  | -0.06046324 |
| ## 367 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 368 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.74706237  | -0.06046324 |
| ## 369 | 0.462107881  | -0.14625708 | -0.202441590 | 0.04284490  | 0.24603874  | -0.06046324 |
| ## 370 | -0.153528234 | -0.14625708 | 0.424595211  | -0.24840201 | -0.01275844 | -0.06046324 |
| ## 371 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 372 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 373 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 374 | -0.153528234 | -0.14625708 | -0.202441590 | 1.44612545  | -0.32331505 | 0.55784436  |
| ## 375 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 376 | -0.153528234 | -0.14625708 | -0.202441590 | 0.09579888  | 0.37543733  | -0.06046324 |
| ## 377 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 378 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.84127225  | -0.06046324 |
| ## 379 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 380 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 381 | 1.856342611  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 5.65888206  |
| ## 382 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 383 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 384 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 385 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 386 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.29053645  | -0.06046324 |
| ## 387 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 388 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 389 | -0.153528234 | -0.14625708 | -0.202441590 | 1.39317146  | -0.32331505 | -0.06046324 |
| ## 390 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 391 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 392 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.11664015  | -0.06046324 |
| ## 393 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 394 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 395 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 396 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 397 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 398 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 399 | 0.534535659  | -0.14625708 | -0.202441590 | -0.24840201 | -0.09039759 | -0.06046324 |
| ## 400 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 401 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 402 | 3.178149563  | -0.14625708 | -0.202441590 | 0.04284490  | 2.03173927  | -0.06046324 |
| ## 403 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 404 | -0.153528234 | 0.35211762  | 0.058823744  | 0.14875287  | 0.89303168  | -0.06046324 |
| ## 405 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 406 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 407 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 408 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 409 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 410 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 411 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

```

## 412 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 413 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 414 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 415 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 416 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 417 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 418 -0.153528234 -0.14625708 1.382568101 2.16100421 -0.32331505 -0.06046324
## 419 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.05966626 -0.06046324
## 420 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 421 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 422 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 423 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 424 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 425 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 426 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 427 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 428 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 429 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 430 -0.153528234 -0.14625708 -0.202441590 5.15290425 -0.32331505 -0.06046324
## 431 -0.153528234 -0.14625708 -0.202441590 1.15487854 -0.32331505 -0.06046324
## 432 0.552642604 1.14951713 0.476848277 0.78420066 1.69530294 -0.06046324
## 433 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.68599394 -0.06046324
## 434 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 435 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 436 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 437 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 438 0.462107881 -0.14625708 -0.202441590 0.04284490 -0.32331505 -0.06046324
## 439 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 440 -0.153528234 2.01336661 0.929708189 1.47260244 -0.32331505 -0.06046324
## 441 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 442 -0.153528234 -0.14625708 2.741147836 -0.24840201 -0.32331505 -0.06046324
## 443 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 444 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 445 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 446 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 447 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 448 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 449 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.33298689 -0.06046324
## 450 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 451 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 452 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 453 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.50483592 -0.06046324
## 454 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 455 -0.153528234 -0.14625708 -0.202441590 0.86363163 -0.32331505 -0.06046324
## 456 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 457 1.711487055 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 458 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.09039759 -0.06046324
## 459 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 460 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 461 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 462 2.037412057 -0.14625708 -0.202441590 -0.06306307 2.13525814 -0.06046324
## 463 -0.153528234 -0.14625708 0.685860544 -0.24840201 -0.32331505 -0.06046324
## 464 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 465 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 466 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 467 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 468 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 469 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.26465673  | -0.06046324 |
| ## 470 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.22015902  | -0.06046324 |
| ## 471 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 472 | -0.153528234 | -0.14625708 | 0.563936722  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 473 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.29779817  | -0.06046324 |
| ## 474 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 475 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 476 | 2.689262060  | -0.14625708 | -0.202441590 | 0.04284490  | 1.90234068  | -0.06046324 |
| ## 477 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 478 | 3.703250955  | -0.14625708 | -0.202441590 | -0.24840201 | 0.76363310  | -0.06046324 |
| ## 479 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 480 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 481 | -0.099207400 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 0.09411366  |
| ## 482 | -0.153528234 | -0.14625708 | -0.202441590 | 4.46450247  | -0.32331505 | -0.06046324 |
| ## 483 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 484 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 485 | -0.153528234 | -0.14625708 | -0.202441590 | 0.01636791  | 0.19427930  | -0.06046324 |
| ## 486 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 487 | -0.153528234 | -0.14625708 | 34.632936231 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 488 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 489 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 490 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 491 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 492 | 0.154289824  | -0.14625708 | -0.202441590 | -0.24840201 | 4.64559077  | -0.06046324 |
| ## 493 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 494 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 495 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.25534773  | -0.06046324 |
| ## 496 | -0.153528234 | -0.14625708 | 1.992187213  | 3.08769891  | -0.32331505 | -0.06046324 |
| ## 497 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 498 | 0.462107881  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 499 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 500 | -0.153528234 | -0.14625708 | 3.176590059  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 501 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 502 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 503 | 0.099968990  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 504 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 505 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 506 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 507 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 508 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 509 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 510 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 511 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 512 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.03863816 | -0.06046324 |
| ## 513 | -0.153528234 | -0.14625708 | 1.347732723  | 2.10805023  | -0.32331505 | -0.06046324 |
| ## 514 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 515 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.50483592  | -0.06046324 |
| ## 516 | -0.153528234 | 0.21921770  | -0.202441590 | 0.99601659  | -0.32331505 | -0.06046324 |
| ## 517 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 518 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 1.12462633  |
| ## 519 | 0.045648156  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 0.04258803  |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 520 | 1.476096776  | -0.14625708 | -0.202441590 | -0.24840201 | 1.41062604  | -0.06046324 |
| ## 521 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 522 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 523 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 524 | 0.860460661  | -0.14625708 | -0.202441590 | -0.24840201 | 1.56590435  | -0.06046324 |
| ## 525 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 526 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 527 | -0.153528234 | -0.14625708 | -0.202441590 | 0.33409181  | -0.32331505 | -0.06046324 |
| ## 528 | 1.295027330  | -0.14625708 | 0.494265966  | -0.24840201 | 1.74706237  | -0.06046324 |
| ## 529 | -0.153528234 | 7.56193822  | 3.838462237  | 5.89426001  | -0.32331505 | -0.06046324 |
| ## 530 | -0.153528234 | -0.14625708 | 1.173555834  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 531 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 532 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 533 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 534 | 0.606963437  | -0.14625708 | -0.202441590 | 0.41352278  | -0.11627731 | -0.06046324 |
| ## 535 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 536 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 537 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 538 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 539 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 540 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 541 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 542 | 0.733712049  | -0.14625708 | -0.202441590 | -0.24840201 | -0.01275844 | -0.06046324 |
| ## 543 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 544 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.01275844 | -0.06046324 |
| ## 545 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 546 | 0.878567606  | -0.14625708 | -0.202441590 | -0.24840201 | 0.09076043  | -0.06046324 |
| ## 547 | -0.153528234 | -0.14625708 | -0.202441590 | 4.06734760  | -0.32331505 | -0.06046324 |
| ## 548 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.73775338  | -0.06046324 |
| ## 549 | -0.153528234 | -0.14625708 | -0.202441590 | 0.25466083  | -0.32331505 | -0.06046324 |
| ## 550 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 551 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 552 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 553 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 554 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 555 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 556 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 557 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 558 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 559 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 560 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 5.26670400  | -0.06046324 |
| ## 561 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 562 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 3.97271811  | -0.06046324 |
| ## 563 | 0.045648156  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 564 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 565 | 3.648930121  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 7.35922796  |
| ## 566 | -0.153528234 | -0.14625708 | 0.633607478  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 567 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 568 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 569 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 570 | 0.697498160  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 571 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.26465673  | -0.06046324 |
| ## 572 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 573 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 574 | 0.697498160  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 575 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 576 | -0.008672677 | -0.14625708 | -0.202441590 | -0.03658607 | -0.11627731 | -0.06046324 |
| ## 577 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 578 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 579 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 580 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 581 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 582 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 583 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 584 | -0.153528234 | 2.44529134  | 1.156138145  | 1.81680333  | -0.32331505 | -0.06046324 |
| ## 585 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 586 | -0.153528234 | -0.14625708 | -0.202441590 | 1.18135553  | 0.37543733  | -0.06046324 |
| ## 587 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 588 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 589 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 590 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 591 | -0.153528234 | 15.66883328 | 8.088378331  | 12.35464591 | -0.32331505 | -0.06046324 |
| ## 592 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 3.42924403  | -0.06046324 |
| ## 593 | -0.153528234 | -0.14625708 | -0.202441590 | 4.96756531  | -0.32331505 | -0.06046324 |
| ## 594 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 595 | -0.153528234 | 2.71109118  | 1.295479656  | 2.02861926  | 4.15387613  | -0.06046324 |
| ## 596 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 1.17615196  |
| ## 597 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 598 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 599 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 600 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 601 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 602 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 603 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 604 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 605 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 606 | -0.153528234 | -0.14625708 | 0.790366678  | 1.26078651  | -0.32331505 | -0.06046324 |
| ## 607 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 608 | 0.317252324  | -0.14625708 | -0.202441590 | 0.43999977  | 0.34955761  | -0.06046324 |
| ## 609 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 610 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 611 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 612 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 613 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 614 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 615 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 616 | -0.153528234 | -0.14625708 | -0.202441590 | 1.39317146  | -0.32331505 | -0.06046324 |
| ## 617 | 1.367455108  | -0.14625708 | -0.202441590 | 0.99601659  | -0.09039759 | 0.40326746  |
| ## 618 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 619 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 620 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 621 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 622 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 623 | -0.153528234 | -0.14625708 | 0.354924455  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 624 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 625 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 626 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.33298689  | -0.06046324 |
| ## 627 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

```

## 628 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 629 -0.153528234 1.98014163 -0.202441590 -0.24840201 2.98928883 -0.06046324
## 630 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 631 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 632 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 633 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 634 -0.153528234 -0.14625708 0.546519033 -0.24840201 -0.32331505 -0.06046324
## 635 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 636 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 637 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 638 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 639 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 640 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 641 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 642 1.204492607 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 643 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 644 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 645 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 646 -0.153528234 2.11304155 0.981961256 1.55203341 1.43650576 -0.06046324
## 647 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 648 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 649 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 650 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 651 -0.153528234 -0.14625708 -0.202441590 1.63146439 -0.32331505 -0.06046324
## 652 -0.153528234 -0.14625708 -0.202441590 -0.24840201 9.61449659 -0.06046324
## 653 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 654 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.76363310 -0.06046324
## 655 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 656 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 657 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.03173927 -0.06046324
## 658 -0.153528234 -0.14625708 -0.202441590 0.04284490 0.27191846 -0.06046324
## 659 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 660 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 661 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 662 -0.153528234 -0.14625708 -0.202441590 1.28726350 -0.32331505 -0.06046324
## 663 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 664 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 665 -0.153528234 -0.14625708 0.372342144 -0.24840201 0.53071564 -0.06046324
## 666 -0.153528234 2.84399110 1.365150412 2.13452722 -0.32331505 -0.06046324
## 667 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 668 -0.153528234 1.94691665 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 669 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 670 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 671 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 672 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 673 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 674 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 675 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.29258372 -0.06046324
## 676 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 677 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 678 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 679 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 680 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 681 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 682 | 0.788032883  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 683 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.42719676  | -0.06046324 |
| ## 684 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 685 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 686 | 2.689262060  | -0.14625708 | -0.202441590 | -0.24840201 | 0.47895620  | -0.06046324 |
| ## 687 | -0.153528234 | -0.14625708 | -0.202441590 | 1.65794138  | -0.32331505 | -0.06046324 |
| ## 688 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 689 | -0.153528234 | -0.14625708 | 2.793400903  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 690 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 691 | -0.153528234 | -0.14625708 | 0.006570677  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 692 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 693 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.38474632  | -0.06046324 |
| ## 694 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 695 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.61766378  | -0.06046324 |
| ## 696 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.14251987  | -0.06046324 |
| ## 697 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.97997983  | -0.06046324 |
| ## 698 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 699 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 700 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.04830999  | -0.06046324 |
| ## 701 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 4.28327472  | -0.06046324 |
| ## 702 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 703 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 704 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 705 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 706 | -0.153528234 | -0.14625708 | -0.202441590 | 1.39317146  | -0.32331505 | -0.06046324 |
| ## 707 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 708 | -0.153528234 | -0.14625708 | 0.685860544  | -0.24840201 | 0.99655056  | -0.06046324 |
| ## 709 | 9.515580155  | -0.14625708 | -0.202441590 | 0.30761481  | -0.32331505 | -0.06046324 |
| ## 710 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 711 | -0.153528234 | -0.14625708 | -0.202441590 | 1.81680333  | -0.32331505 | -0.06046324 |
| ## 712 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 713 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 714 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 715 | 0.099968990  | -0.14625708 | -0.202441590 | -0.24840201 | 3.48100347  | -0.06046324 |
| ## 716 | -0.153528234 | 13.67533449 | 7.043316997  | 10.76602643 | -0.32331505 | -0.06046324 |
| ## 717 | 1.240706496  | -0.14625708 | -0.202441590 | -0.24840201 | 5.68077948  | -0.06046324 |
| ## 718 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 719 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 720 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 721 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 722 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 3.42924403  | -0.06046324 |
| ## 723 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 724 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 725 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 726 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 727 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 728 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 729 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 730 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.33298689  | -0.06046324 |
| ## 731 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 732 | 0.480214825  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 733 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 734 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 735 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

```

## 736 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 737 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 738 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 739 -0.153528234 -0.14625708 1.295479656 2.02861926 -0.32331505 -0.06046324
## 740 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 741 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 742 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 743 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 744 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 745 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 746 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 747 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 748 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 749 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.16113786 -0.06046324
## 750 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 751 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 752 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 753 -0.153528234 -0.14625708 -0.202441590 1.04897057 0.94479112 -0.06046324
## 754 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.81539253 -0.06046324
## 755 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 756 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 757 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.74706237 -0.06046324
## 758 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 759 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 760 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.91891140 -0.06046324
## 761 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 762 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 763 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 764 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 765 1.005316217 0.91694228 0.354924455 0.59886172 2.16113786 -0.06046324
## 766 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 767 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 768 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.44581475 -0.06046324
## 769 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 770 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 771 -0.153528234 -0.14625708 -0.202441590 5.25881221 5.05966626 -0.06046324
## 772 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 773 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 774 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 775 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 776 -0.008672677 -0.14625708 -0.202441590 -0.03658607 -0.32331505 -0.06046324
## 777 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 778 5.025057907 -0.14625708 -0.202441590 0.75772367 0.16839959 -0.06046324
## 779 -0.153528234 -0.14625708 3.072083925 -0.24840201 -0.32331505 -0.06046324
## 780 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.55659535 -0.06046324
## 781 -0.153528234 -0.14625708 -0.202441590 0.59886172 1.33298689 -0.06046324
## 782 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 783 -0.153528234 -0.14625708 1.521909612 -0.24840201 -0.32331505 -0.06046324
## 784 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 785 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 786 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.32367789 -0.06046324
## 787 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 788 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 789 4.011069012 -0.14625708 -0.202441590 -0.24840201 2.05761899 -0.06046324

```



|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 790 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 791 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 792 | -0.153528234 | -0.14625708 | 0.233000633  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 793 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 794 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.67873221  | -0.06046324 |
| ## 795 | -0.153528234 | -0.14625708 | 0.337506766  | -0.24840201 | 0.47895620  | -0.06046324 |
| ## 796 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 797 | 0.462107881  | -0.14625708 | -0.202441590 | 0.04284490  | -0.32331505 | -0.06046324 |
| ## 798 | -0.153528234 | -0.14625708 | 0.407177522  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 799 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 800 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 801 | 0.281038435  | 0.65114244  | 0.215582944  | 0.38704579  | 0.29779817  | -0.06046324 |
| ## 802 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 803 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 804 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 805 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 806 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 807 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 808 | 0.444000936  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 809 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 810 | -0.153528234 | -0.14625708 | -0.202441590 | 1.10192456  | -0.32331505 | -0.06046324 |
| ## 811 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 812 | -0.153528234 | -0.14625708 | 1.208391212  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 813 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 814 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 815 | -0.153528234 | 14.27338413 | 7.356835397  | 11.24261227 | -0.32331505 | -0.06046324 |
| ## 816 | -0.153528234 | 14.27338413 | 7.356835397  | 11.24261227 | -0.32331505 | -0.06046324 |
| ## 817 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 818 | -0.153528234 | -0.14625708 | 1.696086501  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 819 | -0.153528234 | -0.14625708 | 0.685860544  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 820 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 821 | -0.153528234 | 0.78404236  | 0.285253699  | 0.49295375  | 1.12594915  | -0.06046324 |
| ## 822 | -0.153528234 | -0.14625708 | -0.202441590 | 0.89010863  | -0.32331505 | -0.06046324 |
| ## 823 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 824 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 825 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 826 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 827 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.32367789  | -0.06046324 |
| ## 828 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 829 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 830 | -0.153528234 | -0.14625708 | 0.511683655  | 0.83715464  | 0.73775338  | -0.06046324 |
| ## 831 | -0.153528234 | 1.64789183  | 0.738113611  | 1.18135553  | 1.07418971  | -0.06046324 |
| ## 832 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 833 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 834 | -0.153528234 | 1.64789183  | 0.738113611  | 1.18135553  | -0.32331505 | -0.06046324 |
| ## 835 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 836 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 837 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 838 | -0.153528234 | -0.14625708 | -0.202441590 | 0.33409181  | 0.03900100  | -0.06046324 |
| ## 839 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 840 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 841 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 842 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 843 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 844 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 845 | -0.153528234 | -0.14625708 | -0.202441590 | 0.22818384  | -0.32331505 | -0.06046324 |
| ## 846 | -0.153528234 | 0.65114244  | 0.215582944  | 0.38704579  | 0.29779817  | -0.06046324 |
| ## 847 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 848 | -0.153528234 | -0.14625708 | -0.202441590 | 1.15487854  | -0.32331505 | -0.06046324 |
| ## 849 | -0.153528234 | 9.05706231  | 4.622258238  | 7.08572462  | -0.32331505 | -0.06046324 |
| ## 850 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.54002463  | -0.06046324 |
| ## 851 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 852 | -0.153528234 | -0.14625708 | -0.202441590 | 0.54590774  | 0.45307648  | -0.06046324 |
| ## 853 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 854 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 855 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 856 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 857 | 1.095850940  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 858 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 859 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 860 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 861 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 862 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 863 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 10.90848248 | -0.06046324 |
| ## 864 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 865 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 866 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 867 | -0.153528234 | -0.14625708 | 0.825202056  | 1.31374049  | -0.32331505 | -0.06046324 |
| ## 868 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.25534773  | -0.06046324 |
| ## 869 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 870 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.32367789  | -0.06046324 |
| ## 871 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 872 | -0.153528234 | 0.21921770  | -0.202441590 | 0.99601659  | -0.32331505 | -0.06046324 |
| ## 873 | -0.153528234 | 1.31564203  | 1.330315034  | 0.91658562  | -0.32331505 | -0.06046324 |
| ## 874 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 875 | -0.153528234 | -0.14625708 | -0.063100079 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 876 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 877 | -0.153528234 | -0.14625708 | -0.202441590 | 0.86363163  | -0.32331505 | -0.06046324 |
| ## 878 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 879 | -0.153528234 | -0.14625708 | 0.163329877  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 880 | -0.153528234 | -0.14625708 | -0.028264701 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 881 | -0.153528234 | 2.71109118  | 1.295479656  | 2.02861926  | 1.90234068  | -0.06046324 |
| ## 882 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 883 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 884 | -0.153528234 | -0.14625708 | -0.202441590 | 1.18135553  | -0.32331505 | -0.06046324 |
| ## 885 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 886 | -0.153528234 | -0.14625708 | 2.427629435  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 887 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 888 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 889 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 890 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 891 | -0.153528234 | -0.14625708 | -0.202441590 | 3.69666972  | -0.32331505 | 1.84598519  |
| ## 892 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 893 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 894 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 895 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 896 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 897 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|        |              |             |              |             |             |             |
|--------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 898 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 899 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 900 | -0.153528234 | -0.14625708 | 0.546519033  | -0.24840201 | 3.06692798  | -0.06046324 |
| ## 901 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 902 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 903 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 904 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 905 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.94479112  | -0.06046324 |
| ## 906 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 907 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 908 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 909 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 910 | -0.153528234 | -0.14625708 | -0.202441590 | 5.15290425  | -0.32331505 | -0.06046324 |
| ## 911 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 912 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 913 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 914 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 915 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 916 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 917 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 918 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 919 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 920 | -0.153528234 | 2.27916644  | 1.069049700  | 1.68441837  | 1.56590435  | -0.06046324 |
| ## 921 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 922 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 923 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 924 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 925 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 926 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 3.14456714  | -0.06046324 |
| ## 927 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 928 | -0.044886566 | -0.14625708 | -0.202441590 | 1.73737235  | -0.16803675 | -0.06046324 |
| ## 929 | -0.153528234 | -0.14625708 | 0.233000633  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 930 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 931 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 932 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 933 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 934 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 935 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 936 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 937 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 938 | -0.153528234 | -0.14625708 | -0.202441590 | 0.06932189  | -0.01275844 | -0.06046324 |
| ## 939 | -0.062993511 | -0.14625708 | -0.202441590 | 0.36056880  | -0.19391646 | -0.06046324 |
| ## 940 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 941 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 942 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 943 | -0.153528234 | -0.14625708 | 0.581354411  | -0.24840201 | 0.84127225  | -0.06046324 |
| ## 944 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 945 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 946 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 947 | -0.153528234 | -0.14625708 | -0.202441590 | -0.01010908 | -0.32331505 | -0.06046324 |
| ## 948 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 949 | 0.878567606  | 0.78404236  | 1.783174946  | 2.76997502  | 0.40131705  | -0.06046324 |
| ## 950 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 951 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|         |              |             |              |             |             |             |
|---------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## 952  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 953  | 0.407787047  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 954  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 955  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.42719676  | -0.06046324 |
| ## 956  | -0.153528234 | -0.14625708 | 2.305705613  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 957  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 958  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.54933363  | -0.06046324 |
| ## 959  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 960  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 961  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 962  | 3.703250955  | -0.14625708 | -0.202441590 | -0.24840201 | 2.41993504  | -0.06046324 |
| ## 963  | -0.153528234 | 1.78079175  | 1.835428012  | 1.28726350  | 0.42719676  | -0.06046324 |
| ## 964  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 965  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 966  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 967  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 968  | 0.444000936  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 969  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.29779817  | -0.06046324 |
| ## 970  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 971  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 972  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 973  | -0.153528234 | -0.14625708 | -0.202441590 | 1.28726350  | -0.32331505 | -0.06046324 |
| ## 974  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 5.40125389  |
| ## 975  | -0.153528234 | -0.14625708 | 0.337506766  | 3.03474493  | -0.32331505 | -0.06046324 |
| ## 976  | 3.685144011  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 977  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.07418971  | 2.72192096  |
| ## 978  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 979  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.78225109  | -0.06046324 |
| ## 980  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 981  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 982  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 983  | 0.317252324  | -0.14625708 | -0.202441590 | 0.17522986  | 1.61766378  | -0.06046324 |
| ## 984  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 985  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 986  | -0.153528234 | -0.14625708 | -0.202441590 | 0.73124668  | 1.59178407  | -0.06046324 |
| ## 987  | -0.153528234 | -0.14625708 | -0.202441590 | -0.01010908 | -0.32331505 | -0.06046324 |
| ## 988  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 989  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 990  | -0.153528234 | -0.14625708 | 0.581354411  | -0.24840201 | 0.24603874  | -0.06046324 |
| ## 991  | -0.153528234 | -0.14625708 | 2.305705613  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 992  | -0.153528234 | -0.14625708 | -0.202441590 | 0.89010863  | -0.32331505 | -0.06046324 |
| ## 993  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 994  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 995  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 996  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.95410012  | -0.06046324 |
| ## 997  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 998  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 999  | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1000 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1001 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1002 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1003 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1004 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## 1005 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |

|    |      |              |             |              |             |             |             |
|----|------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## | 1006 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1007 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1008 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1009 | -0.153528234 | 0.51824252  | 0.494265966  | 0.28113782  | 2.26465673  | -0.06046324 |
| ## | 1010 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1011 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.29053645  | -0.06046324 |
| ## | 1012 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1013 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1014 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1015 | 3.685144011  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1016 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1017 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 0.53071564  | -0.06046324 |
| ## | 1018 | -0.153528234 | 1.94691665  | 0.894872811  | 1.41964845  | 1.30710717  | -0.06046324 |
| ## | 1019 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1020 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1021 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1022 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1023 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1024 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1025 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1026 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1027 | 1.095850940  | -0.14625708 | -0.202441590 | 0.46647676  | 0.73775338  | -0.06046324 |
| ## | 1028 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1029 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.54002463  | -0.06046324 |
| ## | 1030 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 2.70461193  | -0.06046324 |
| ## | 1031 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1032 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1033 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1034 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1035 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1036 | -0.153528234 | 0.75081738  | 0.267836011  | 0.46647676  | -0.32331505 | -0.06046324 |
| ## | 1037 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1038 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1039 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1040 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1041 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1042 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.         |

```

## 1060 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1061 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1062 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1063 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1064 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1065 1.186385663 -0.14625708 -0.202441590 -0.24840201 0.09076043 -0.06046324
## 1066 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1067 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1068 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1069 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1070 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1071 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1072 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1073 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1074 -0.153528234 -0.14625708 -0.202441590 1.41964845 -0.32331505 -0.06046324
## 1075 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 1076 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1077 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.19632657 -0.06046324
## 1078 -0.153528234 -0.14625708 2.793400903 -0.24840201 -0.32331505 -0.06046324
## 1079 -0.153528234 4.33911519 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1080 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1081 -0.153528234 -0.14625708 0.964543567 -0.24840201 1.41062604 -0.06046324
## 1082 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1083 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1084 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1085 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1086 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1087 -0.153528234 -0.14625708 -0.202441590 5.25881221 5.05966626 -0.06046324
## 1088 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1089 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1090 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1091 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1092 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1093 0.317252324 -0.14625708 -0.202441590 0.17522986 1.61766378 -0.06046324
## 1094 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1095 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1096 -0.153528234 -0.14625708 0.128494499 -0.24840201 -0.32331505 -0.06046324
## 1097 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1098 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1099 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1100 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 1101 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1102 1.276920386 0.48501754 0.825202056 -0.24840201 -0.32331505 -0.06046324
## 1103 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1104 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1105 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1106 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1107 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1108 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1109 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1110 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1111 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1112 -0.153528234 -0.14625708 0.842619745 1.34021748 2.80813080 -0.06046324
## 1113 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1114 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1115 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1116 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1117 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.09280770 -0.06046324
## 1118 0.462107881 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1119 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.43650576 -0.06046324
## 1120 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.85058124 -0.06046324
## 1121 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1122 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1123 -0.153528234 -0.14625708 0.337506766 -0.24840201 2.08349870 -0.06046324
## 1124 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1125 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1126 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1127 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.27191846 -0.06046324
## 1128 -0.153528234 -0.14625708 3.786209170 -0.24840201 -0.32331505 -0.06046324
## 1129 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1130 4.101603735 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1131 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1132 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1133 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1134 -0.153528234 -0.14625708 2.357958680 -0.24840201 -0.32331505 -0.06046324
## 1135 -0.153528234 2.37884138 -0.202441590 -0.24840201 3.61040206 -0.06046324
## 1136 -0.153528234 -0.14625708 -0.202441590 3.14065290 -0.32331505 -0.06046324
## 1137 -0.153528234 -0.14625708 0.128494499 -0.24840201 -0.32331505 -0.06046324
## 1138 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1139 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1140 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1141 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1142 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1143 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1144 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1145 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1146 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1147 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1148 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.28327472 -0.06046324
## 1149 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.53276290 -0.06046324
## 1150 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 2.72192096
## 1151 -0.153528234 -0.14625708 0.076241433 -0.24840201 -0.32331505 -0.06046324
## 1152 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 1153 -0.153528234 -0.14625708 0.198165255 -0.24840201 0.27191846 -0.06046324
## 1154 -0.153528234 -0.14625708 0.302671388 0.51943075 1.17770858 -0.06046324
## 1155 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1156 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1157 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1158 -0.153528234 -0.14625708 -0.202441590 2.95531396 0.06488071 -0.06046324
## 1159 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1160 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1161 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1162 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1163 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1164 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1165 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1166 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1167 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1168 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1169 -0.153528234 9.92091178 5.075118150 7.77412640 -0.32331505 -0.06046324
## 1170 -0.153528234 -0.14625708 -0.202441590 2.16100421 -0.32331505 -0.06046324
## 1171 -0.153528234 -0.14625708 0.703278233 -0.24840201 -0.32331505 -0.06046324
## 1172 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1173 -0.153528234 1.44854195 1.469656545 2.29338917 -0.32331505 -0.06046324
## 1174 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1175 -0.153528234 -0.14625708 4.482916727 -0.24840201 -0.32331505 -0.06046324
## 1176 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1177 -0.153528234 2.37884138 1.121302767 1.76384934 -0.32331505 -0.06046324
## 1178 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1179 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.29779817 -0.06046324
## 1180 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.29984544 -0.06046324
## 1181 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1182 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1183 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1184 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.32331505 -0.06046324
## 1185 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1186 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1187 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1188 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1189 -0.153528234 -0.14625708 -0.202441590 3.35246883 -0.32331505 -0.06046324
## 1190 0.081862045 -0.14625708 -0.202441590 1.18135553 0.37543733 -0.06046324
## 1191 -0.153528234 -0.14625708 -0.202441590 0.17522986 -0.32331505 -0.06046324
## 1192 -0.153528234 -0.14625708 -0.202441590 -0.24840201 7.28532199 -0.06046324
## 1193 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1194 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.01312128 -0.06046324
## 1195 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1196 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1197 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.53071564 -0.06046324
## 1198 0.444000936 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1199 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.29053645 -0.06046324
## 1200 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1201 -0.153528234 -0.14625708 0.215582944 -0.24840201 1.59178407 -0.06046324
## 1202 -0.153528234 1.44854195 1.469656545 2.29338917 -0.32331505 -0.06046324
## 1203 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1204 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1205 -0.008672677 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1206 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1207 -0.153528234 -0.14625708 2.392794058 1.71089536 0.63423451 -0.06046324
## 1208 0.534535659 -0.14625708 -0.202441590 -0.24840201 -0.09039759 -0.06046324
## 1209 1.476096776 -0.14625708 -0.202441590 2.13452722 -0.32331505 -0.06046324
## 1210 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1211 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.37543733 -0.06046324
## 1212 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1213 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1214 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1215 -0.153528234 0.91694228 0.912290500 0.59886172 0.50483592 -0.06046324
## 1216 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1217 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1218 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.33298689 -0.06046324
## 1219 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1220 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1221 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```



```

## 1222 -0.153528234 -0.14625708 1.574162679 -0.24840201 2.31641617 -0.06046324
## 1223 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1224 -0.153528234 -0.14625708 -0.202441590 1.15487854 -0.32331505 -0.06046324
## 1225 4.481849571 -0.14625708 -0.202441590 -0.24840201 2.98928883 -0.06046324
## 1226 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1227 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1228 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1229 -0.153528234 -0.14625708 3.664285348 -0.24840201 -0.32331505 -0.06046324
## 1230 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1231 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1232 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1233 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.47895620 -0.06046324
## 1234 -0.153528234 1.01661721 0.407177522 0.67829269 1.48826519 -0.06046324
## 1235 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1236 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1237 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1238 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1239 -0.153528234 -0.14625708 1.330315034 -0.24840201 -0.32331505 -0.06046324
## 1240 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1241 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1242 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1243 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1244 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1245 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1246 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1247 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1248 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1249 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1250 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1251 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1252 -0.153528234 1.31564203 1.330315034 0.91658562 -0.32331505 -0.06046324
## 1253 -0.153528234 1.98014163 0.912290500 1.44612545 2.18701758 -0.06046324
## 1254 -0.153528234 -0.14625708 0.685860544 -0.24840201 0.99655056 -0.06046324
## 1255 -0.099207400 -0.14625708 -0.202441590 -0.24840201 -0.32331505 0.09411366
## 1256 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1257 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1258 -0.153528234 2.27916644 1.069049700 1.68441837 1.56590435 -0.06046324
## 1259 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1260 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1261 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1262 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1263 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1264 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1265 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1266 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1267 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1268 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1269 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1270 -0.153528234 2.11304155 0.981961256 1.55203341 1.43650576 -0.06046324
## 1271 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1272 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1273 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1274 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1275 0.045648156 -0.14625708 -0.202441590 2.08157324 0.81539253 -0.06046324

```

```

## 1276 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1277 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1278 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1279 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1280 2.001198168 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1281 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1282 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1283 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.54933363 -0.06046324
## 1284 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1285 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1286 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1287 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1288 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1289 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1290 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.30710717 -0.06046324
## 1291 -0.153528234 -0.14625708 0.076241433 -0.24840201 -0.32331505 -0.06046324
## 1292 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1293 -0.153528234 -0.14625708 -0.202441590 0.59886172 1.33298689 -0.06046324
## 1294 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1295 0.281038435 0.65114244 0.215582944 0.38704579 0.29779817 -0.06046324
## 1296 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1297 6.600362083 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1298 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1299 1.331241219 -0.14625708 -0.202441590 -0.24840201 1.30710717 -0.06046324
## 1300 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1301 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 2.25819026
## 1302 -0.153528234 -0.14625708 -0.202441590 2.47872811 -0.32331505 -0.06046324
## 1303 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1304 -0.153528234 3.17624090 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1305 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1306 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1307 0.896674550 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1308 0.226717602 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1309 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1310 1.367455108 -0.14625708 -0.202441590 0.99601659 -0.09039759 0.40326746
## 1311 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1312 -0.153528234 -0.14625708 1.992187213 3.08769891 -0.32331505 -0.06046324
## 1313 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1314 0.299145380 -0.14625708 -0.202441590 -0.24840201 -0.11627731 -0.06046324
## 1315 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1316 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1317 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1318 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 1319 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1320 -0.153528234 -0.14625708 -0.202441590 0.22818384 -0.32331505 -0.06046324
## 1321 5.025057907 -0.14625708 -0.202441590 0.75772367 0.16839959 -0.06046324
## 1322 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1323 -0.153528234 -0.14625708 -0.202441590 1.92271129 -0.32331505 -0.06046324
## 1324 0.950995384 -0.14625708 -0.202441590 -0.03658607 -0.11627731 -0.06046324
## 1325 -0.153528234 -0.14625708 0.738113611 -0.24840201 -0.32331505 -0.06046324
## 1326 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1327 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1328 -0.153528234 -0.14625708 -0.202441590 -0.24840201 10.90848248 -0.06046324
## 1329 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1330 -0.153528234 -0.14625708 1.034214323 -0.24840201 0.58247507 -0.06046324
## 1331 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1332 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1333 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1334 0.444000936 0.95016726 0.372342144 0.62533871 0.53071564 -0.06046324
## 1335 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.11664015 -0.06046324
## 1336 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1337 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1338 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 1339 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.80813080 -0.06046324
## 1340 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1341 -0.153528234 -0.14625708 -0.202441590 0.41352278 -0.11627731 -0.06046324
## 1342 -0.153528234 -0.14625708 0.250418322 0.43999977 0.34955761 -0.06046324
## 1343 -0.153528234 -0.14625708 0.372342144 -0.24840201 -0.32331505 -0.06046324
## 1344 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1345 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1346 -0.153528234 1.84724171 -0.202441590 -0.24840201 1.22946802 -0.06046324
## 1347 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1348 -0.153528234 -0.14625708 -0.202441590 2.05509625 -0.32331505 -0.06046324
## 1349 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1350 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1351 0.480214825 -0.14625708 -0.202441590 -0.24840201 0.58247507 -0.06046324
## 1352 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1353 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1354 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1355 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.32331505 -0.06046324
## 1356 -0.153528234 -0.14625708 1.347732723 2.10805023 -0.32331505 -0.06046324
## 1357 0.118075934 -0.14625708 -0.202441590 0.14875287 0.06488071 -0.06046324
## 1358 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1359 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1360 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1361 1.530417609 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1362 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1363 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 1364 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1365 -0.153528234 -0.14625708 -0.202441590 2.50520510 -0.32331505 -0.06046324
## 1366 -0.153528234 -0.14625708 -0.202441590 2.02861926 -0.32331505 -0.06046324
## 1367 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1368 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 7.97753556
## 1369 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1370 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1371 -0.153528234 -0.14625708 0.842619745 -0.24840201 -0.32331505 -0.06046324
## 1372 -0.153528234 -0.14625708 -0.202441590 4.96756531 -0.32331505 -0.06046324
## 1373 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1374 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1375 0.697498160 -0.14625708 -0.202441590 -0.24840201 1.87646096 -0.06046324
## 1376 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1377 -0.153528234 -0.14625708 -0.202441590 -0.01010908 -0.09039759 -0.06046324
## 1378 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.35160488 -0.06046324
## 1379 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1380 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1381 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1382 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1383 -0.153528234 1.28241705 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1384 -0.153528234 -0.14625708 3.542361526 -0.24840201 -0.32331505 -0.06046324
## 1385 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1386 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.34955761 -0.06046324
## 1387 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1388 0.226717602 -0.14625708 0.163329877 -0.24840201 0.22015902 -0.06046324
## 1389 -0.153528234 -0.14625708 0.302671388 -0.24840201 -0.32331505 -0.06046324
## 1390 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1391 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1392 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1393 -0.153528234 -0.14625708 2.845653969 -0.24840201 -0.32331505 -0.06046324
## 1394 -0.153528234 -0.14625708 -0.202441590 0.57238473 0.47895620 -0.06046324
## 1395 1.023423162 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1396 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.06488071 -0.06046324
## 1397 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1398 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1399 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1400 5.821763467 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1401 1.222599552 -0.14625708 -0.202441590 -0.24840201 0.50483592 -0.06046324
## 1402 1.095850940 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1403 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1404 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1405 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1406 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1407 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 33.17357026
## 1408 -0.153528234 -0.14625708 -0.202441590 0.25466083 0.66011422 -0.06046324
## 1409 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1410 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1411 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1412 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1413 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1414 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1415 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1416 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1417 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1418 -0.153528234 -0.14625708 -0.202441590 2.53168209 -0.32331505 -0.06046324
## 1419 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1420 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1421 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1422 9.533687100 -0.14625708 -0.202441590 0.30761481 -0.32331505 -0.06046324
## 1423 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1424 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1425 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1426 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1427 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1428 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1429 -0.153528234 -0.14625708 0.163329877 -0.24840201 0.37543733 -0.06046324
## 1430 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1431 0.842353716 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1432 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1433 -0.153528234 -0.14625708 1.208391212 -0.24840201 -0.32331505 -0.06046324
## 1434 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1435 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.29984544 -0.06046324
## 1436 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1437 -0.008672677 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

|    |      |              |             |              |             |             |             |
|----|------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## | 1438 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1439 | -0.153528234 | 2.37884138  | 1.121302767  | 1.76384934  | -0.32331505 | -0.06046324 |
| ## | 1440 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1441 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1442 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1443 | -0.153528234 | -0.14625708 | 0.563936722  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1444 | -0.153528234 | -0.14625708 | 0.563936722  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1445 | 3.648930121  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | 7.35922796  |
| ## | 1446 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1447 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1448 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1449 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1450 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1451 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1452 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1453 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1454 | -0.153528234 | 2.37884138  | 1.121302767  | 1.76384934  | 1.64354350  | -0.06046324 |
| ## | 1455 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1456 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1457 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1458 | -0.153528234 | -0.14625708 | -0.028264701 | 0.14875287  | 0.22015902  | -0.06046324 |
| ## | 1459 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1460 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1461 | -0.153528234 | -0.14625708 | 0.041406055  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1462 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1463 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1464 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1465 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1466 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1467 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1468 | 0.733712049  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1469 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1470 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1471 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1472 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1473 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1474 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.         |

```

## 1492 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1493 4.155924569 -0.14625708 3.942968371 -0.24840201 -0.32331505 -0.06046324
## 1494 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1495 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1496 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.29053645 -0.06046324
## 1497 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1498 -0.153528234 -0.14625708 -0.202441590 1.41964845 -0.32331505 -0.06046324
## 1499 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1500 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1501 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1502 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1503 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1504 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1505 -0.153528234 1.94691665 0.894872811 1.41964845 2.13525814 -0.06046324
## 1506 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1507 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1508 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.31641617 -0.06046324
## 1509 1.095850940 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1510 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1511 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1512 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1513 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1514 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1515 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.69735021 -0.06046324
## 1516 -0.153528234 2.67786620 1.278061967 2.00214227 1.87646096 -0.06046324
## 1517 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1518 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1519 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1520 13.245610732 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1521 -0.153528234 -0.14625708 -0.202441590 0.57238473 -0.32331505 -0.06046324
## 1522 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1523 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1524 -0.153528234 -0.14625708 2.410211747 -0.24840201 -0.32331505 -0.06046324
## 1525 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1526 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.12799641 -0.06046324
## 1527 -0.153528234 -0.14625708 -0.045682390 -0.24840201 -0.32331505 -0.06046324
## 1528 -0.153528234 1.38209199 0.598772100 0.96953960 0.86715197 -0.06046324
## 1529 0.480214825 -0.14625708 -0.202441590 -0.24840201 0.58247507 -0.06046324
## 1530 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1531 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1532 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1533 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1534 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1535 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1536 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1537 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1538 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1539 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1540 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1541 -0.153528234 -0.14625708 -0.202441590 1.10192456 -0.32331505 -0.06046324
## 1542 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 2.25819026
## 1543 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1544 0.335359269 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1545 -0.153528234 -0.14625708 1.103885078 -0.24840201 -0.32331505 -0.06046324

```

|    |      |              |             |              |             |             |             |
|----|------|--------------|-------------|--------------|-------------|-------------|-------------|
| ## | 1546 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1547 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1548 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1549 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1550 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1551 | -0.153528234 | -0.14625708 | -0.202441590 | 2.00214227  | -0.32331505 | -0.06046324 |
| ## | 1552 | 1.476096776  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1553 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1554 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1555 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1556 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1557 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1558 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1559 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1560 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | 1.35886661  | -0.06046324 |
| ## | 1561 | -0.153528234 | -0.14625708 | -0.202441590 | 2.74349803  | -0.32331505 | -0.06046324 |
| ## | 1562 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1563 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1564 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1565 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1566 | -0.153528234 | -0.14625708 | -0.202441590 | 2.95531396  | -0.32331505 | -0.06046324 |
| ## | 1567 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1568 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1569 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1570 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1571 | -0.153528234 | -0.14625708 | 0.372342144  | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1572 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1573 | -0.117314345 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1574 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1575 | -0.153528234 | -0.14625708 | 1.347732723  | -0.24840201 | 1.97997983  | -0.06046324 |
| ## | 1576 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1577 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1578 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1579 | 0.154289824  | -0.14625708 | -0.202441590 | -0.24840201 | 4.64559077  | -0.06046324 |
| ## | 1580 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1581 | 0.697498160  | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.06046324 |
| ## | 1582 | -0.153528234 | -0.14625708 | -0.202441590 | -0.24840201 | -0.32331505 | -0.         |

```

## 1600 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1601 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1602 0.733712049 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 1603 -0.153528234 -0.14625708 7.531012286 -0.24840201 -0.32331505 -0.06046324
## 1604 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1605 -0.153528234 1.01661721 -0.202441590 -0.24840201 1.51414491 -0.06046324
## 1606 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.66011422 -0.06046324
## 1607 -0.153528234 -0.14625708 0.285253699 -0.24840201 1.12594915 -0.06046324
## 1608 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1609 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1610 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1611 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1612 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1613 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1614 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1615 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1616 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1617 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1618 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1619 2.381444003 -0.14625708 2.236034857 -0.24840201 -0.32331505 -0.06046324
## 1620 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1621 -0.153528234 -0.14625708 -0.080517768 -0.24840201 -0.32331505 -0.06046324
## 1622 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1623 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1624 -0.153528234 -0.14625708 -0.028264701 -0.24840201 -0.32331505 -0.06046324
## 1625 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1626 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1627 -0.153528234 -0.14625708 -0.202441590 -0.24840201 9.25218054 -0.06046324
## 1628 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1629 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1630 -0.153528234 -0.14625708 0.825202056 -0.24840201 1.20358830 -0.06046324
## 1631 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1632 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.42719676 -0.06046324
## 1633 -0.153528234 -0.14625708 -0.202441590 1.97566527 -0.32331505 -0.06046324
## 1634 -0.153528234 -0.14625708 -0.202441590 5.15290425 -0.32331505 -0.06046324
## 1635 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1636 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1637 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1638 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1639 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1640 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1641 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1642 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1643 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1644 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1645 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.11627731 -0.06046324
## 1646 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1647 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1648 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1649 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.77294209 -0.06046324
## 1650 -0.153528234 2.51174130 1.190973523 1.86975731 1.74706237 -0.06046324
## 1651 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1652 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1653 -0.153528234 -0.14625708 0.668442855 -0.24840201 -0.32331505 -0.06046324

```



```

## 1654 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1655 -0.153528234 -0.14625708 0.023988366 -0.24840201 -0.32331505 -0.06046324
## 1656 0.389680103 -0.14625708 -0.202441590 -0.24840201 -0.06451787 -0.06046324
## 1657 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1658 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1659 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1660 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1661 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.63628177 -0.06046324
## 1662 -0.153528234 1.88046669 0.860037434 1.36669447 -0.32331505 -0.06046324
## 1663 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1664 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1665 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1666 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1667 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.11664015 -0.06046324
## 1668 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1669 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1670 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1671 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1672 -0.153528234 -0.14625708 2.497300191 1.79032633 -0.32331505 -0.06046324
## 1673 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1674 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.42198230 -0.06046324
## 1675 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1676 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1677 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1678 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1679 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1680 0.208610657 -0.14625708 0.145912188 -0.24840201 0.19427930 -0.06046324
## 1681 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1682 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.76363310 -0.06046324
## 1683 -0.153528234 -0.14625708 2.950160103 -0.24840201 -0.32331505 -0.06046324
## 1684 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1685 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1686 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1687 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1688 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1689 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1690 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1691 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1692 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.17615196
## 1693 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1694 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1695 -0.153528234 -0.14625708 -0.202441590 0.57238473 0.47895620 -0.06046324
## 1696 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1697 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1698 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1699 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1700 -0.153528234 -0.14625708 -0.202441590 0.06932189 -0.32331505 -0.06046324
## 1701 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1702 -0.153528234 -0.14625708 -0.202441590 1.18135553 -0.32331505 -0.06046324
## 1703 -0.153528234 -0.14625708 -0.202441590 0.57238473 -0.32331505 -0.06046324
## 1704 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1705 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1706 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1707 -0.153528234 0.08631778 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1708 -0.062993511 -0.14625708 0.372342144 -0.11601705 0.53071564 -0.06046324
## 1709 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1710 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1711 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1712 -0.153528234 1.14951713 0.476848277 3.88200866 0.68599394 -0.06046324
## 1713 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1714 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1715 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1716 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1717 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1718 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1719 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1720 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1721 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1722 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1723 -0.153528234 1.51499191 0.668442855 1.07544757 0.97067084 -0.06046324
## 1724 4.481849571 -0.14625708 -0.202441590 -0.24840201 2.98928883 -0.06046324
##          V39          V40          V41          V42          V43
## 1  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 2  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 3  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 4  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 5  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 6  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 7  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 8  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 9  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 10 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 11 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 12 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 13 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 14 0.91081118 0.83724150 -0.12851656 -0.1662754768 1.5850977116
## 15 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 16 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 17 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 18 -0.19805329 -0.19138696 -0.12851656 4.4389848222 -0.2111120988
## 19 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 20 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 21 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 22 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 23 -0.19805329 -0.19138696 -0.12851656 4.1070741700 -0.2111120988
## 24 0.45421993 0.41368861 -0.12851656 -0.1662754768 0.8454819073
## 25 -0.19805329 -0.19138696 -0.12851656 0.4975458275 -0.2111120988
## 26 0.03024234 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 27 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 28 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 29 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 30 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 31 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 32 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 33 0.22592430 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 34 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 35 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 36 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

|       |             |             |             |               |               |
|-------|-------------|-------------|-------------|---------------|---------------|
| ## 37 | 6.06376959  | -0.19138696 | 4.60703035  | -0.1662754768 | 9.9321903599  |
| ## 38 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 39 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 40 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 41 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 42 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 43 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 44 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 45 | -0.19805329 | 0.23216594  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 46 | -0.19805329 | 1.86586997  | -0.12851656 | -0.1662754768 | 3.3813075220  |
| ## 47 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 48 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 49 | 2.15013029  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 50 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 51 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 52 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 53 | -0.19805329 | 0.23216594  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 54 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 55 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 56 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 57 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 58 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 59 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 60 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 61 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 62 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 63 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 64 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 65 | -0.19805329 | 12.93875286 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 66 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 1.5850977116  |
| ## 67 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 68 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 69 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 70 | -0.19805329 | -0.19138696 | 6.03756014  | 1.5624258366  | 6.3926004394  |
| ## 71 | 0.84558386  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 72 | -0.19805329 | 1.13977929  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 73 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 74 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 75 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 76 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.1058661031  |
| ## 77 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 4.2794124272  |
| ## 78 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 79 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 80 | -0.19805329 | 1.32130196  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 81 | -0.19805329 | -0.19138696 | 1.35134185  | -0.1662754768 | -0.2111120988 |
| ## 82 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 83 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 84 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 85 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 86 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 87 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 88 | 2.37842592  | 0.98851040  | -0.12851656 | -0.1662754768 | 1.8492462131  |
| ## 89 | -0.19805329 | 0.02038949  | -0.12851656 | -0.1662754768 | 0.1586958034  |
| ## 90 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |

|        |             |             |             |               |               |
|--------|-------------|-------------|-------------|---------------|---------------|
| ## 91  | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 92  | -0.19805329 | -0.19138696 | -0.12851656 | 3.1943198765  | -0.2111120988 |
| ## 93  | -0.19805329 | -0.19138696 | -0.12851656 | 13.6633350308 | -0.2111120988 |
| ## 94  | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 95  | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 96  | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 97  | -0.19805329 | -0.19138696 | 17.48179851 | -0.1662754768 | -0.2111120988 |
| ## 98  | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 99  | -0.19805329 | 1.10952551  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 100 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 101 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 102 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 103 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 104 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 105 | -0.19805329 | -0.19138696 | -0.12851656 | 2.4336912986  | -0.2111120988 |
| ## 106 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 107 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 108 | 1.66092538  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 109 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 110 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 111 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 112 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 113 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 114 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 115 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 116 | -0.19805329 | -0.19138696 | 0.36476958  | -0.1662754768 | -0.2111120988 |
| ## 117 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 118 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 119 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 120 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 121 | 4.72660949  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 122 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 123 | -0.19805329 | -0.19138696 | -0.12851656 | 2.0464622044  | -0.2111120988 |
| ## 124 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 125 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 126 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 127 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 128 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 129 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 130 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 131 | -0.19805329 | 1.32130196  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 132 | 1.56308440  | -0.19138696 | -0.12851656 | 3.5677193602  | -0.2111120988 |
| ## 133 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 134 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 135 | 0.81297020  | -0.19138696 | -0.12851656 | -0.1662754768 | 1.4266086107  |
| ## 136 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 137 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 138 | -0.19805329 | -0.19138696 | -0.12851656 | 1.6454034997  | -0.2111120988 |
| ## 139 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 140 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 141 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 142 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 143 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 144 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |

```

## 145 -0.19805329 -0.07037185 -0.12851656 -0.1662754768 -0.2111120988
## 146 0.84558386 0.77673395 -0.12851656 -0.1662754768 3.1699887208
## 147 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 148 0.42160627 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 149 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 150 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 151 -0.19805329 -0.07037185 -0.12851656 -0.1662754768 -0.2111120988
## 152 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 153 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 154 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 155 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 156 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 157 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 158 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 159 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 160 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 161 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.2115255037
## 162 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 163 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 164 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 165 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 166 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 167 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 168 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 169 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 170 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 171 0.35637895 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 172 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 173 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 174 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 175 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 176 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 177 -0.19805329 -0.19138696 -0.12851656 0.7741380377 -0.2111120988
## 178 1.20433413 -0.19138696 -0.12851656 -0.1662754768 2.0605650144
## 179 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 180 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 181 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 182 4.59615485 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 183 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 184 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 185 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 186 -0.19805329 -0.19138696 -0.12851656 3.0421941609 -0.2111120988
## 187 1.59569806 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 188 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 189 -0.19805329 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 190 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 191 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 192 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 193 -0.19805329 -0.19138696 6.85148227 -0.1662754768 -0.2111120988
## 194 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 195 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 196 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 197 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 198 -0.19805329 -0.19138696 -0.12851656 -0.0003201507 -0.2111120988

```

```

## 199 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.7435868125
## 200 -0.19805329 -0.19138696 0.90738433 -0.1662754768 -0.2111120988
## 201 3.12854012 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 202 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 203 -0.19805329 -0.19138696 -0.12851656 1.2858336265 -0.2111120988
## 204 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 205 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 206 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 207 -0.19805329 6.82748963 -0.12851656 -0.1662754768 -0.2111120988
## 208 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 209 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 210 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 211 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 212 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 213 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 214 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 215 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 216 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 217 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 218 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 219 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 220 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 221 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 222 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 223 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 224 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 225 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 226 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 227 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 228 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 229 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 230 0.16069698 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 231 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 232 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 233 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 234 -0.19805329 0.11115082 -0.12851656 -0.1662754768 -0.2111120988
## 235 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 236 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.1624601092
## 237 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 238 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 239 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 240 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 241 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 242 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 243 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 244 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 245 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 246 12.84741104 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 247 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 248 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 249 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 250 11.31456898 -0.19138696 -0.12851656 1.0507302478 -0.2111120988
## 251 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 252 0.91081118 -0.19138696 0.71006987 -0.1662754768 -0.2111120988

```

```

## 253 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 254 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 255 -0.19805329 -0.19138696 -0.12851656 0.2762720594 -0.2111120988
## 256 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 257 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 258 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 259 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 260 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 261 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 262 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 263 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 264 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 265 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 266 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 267 -0.19805329 0.02038949 -0.12851656 -0.1662754768 0.1586958034
## 268 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 269 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 270 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 271 0.68251555 0.62546506 -0.12851656 -0.1662754768 1.2152898095
## 272 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 273 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 274 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 275 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 276 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 9.2982339562
## 277 -0.19805329 0.56495750 -0.12851656 -0.1662754768 -0.2111120988
## 278 -0.19805329 -0.19138696 0.48809111 -0.1662754768 -0.2111120988
## 279 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 280 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 281 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 282 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 283 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 284 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 285 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 286 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 287 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 288 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 289 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 290 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 291 -0.19805329 7.76535676 -0.12851656 -0.1662754768 -0.2111120988
## 292 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 293 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 294 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 295 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 296 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 297 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 298 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 299 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 300 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 301 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 302 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 303 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 304 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 305 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 306 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 307 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 308 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 309 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 310 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 311 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 312 1.36740243 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 313 2.34581226 0.98851040 -0.12851656 2.5443281826 3.9096045251
## 314 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 315 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 316 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 317 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 318 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 319 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 320 2.67194886 2.47094554 -0.12851656 -0.1662754768 4.4379015281
## 321 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 322 -0.19805329 -0.19138696 -0.12851656 1.1751967424 -0.2111120988
## 323 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 324 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064
## 325 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 326 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 327 -0.19805329 0.86749528 -0.12851656 -0.1662754768 1.6379274119
## 328 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 329 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 330 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 331 -0.19805329 1.56333219 -0.12851656 -0.1662754768 -0.2111120988
## 332 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 333 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 334 -0.19805329 2.59196065 -0.12851656 1.7422107732 -0.2111120988
## 335 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 3.0114996199
## 336 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 337 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 338 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 339 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 340 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 341 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 342 -0.19805329 0.17165838 -0.12851656 -0.1662754768 -0.2111120988
## 343 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 344 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 345 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 346 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 347 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 348 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 349 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 350 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 351 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 352 2.54149422 -0.19138696 -0.12851656 -0.1662754768 4.2265827269
## 353 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 354 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 355 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 356 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 357 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 358 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 359 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 360 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 361 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 362 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 363 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 364 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 365 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 366 5.31365539 -0.19138696 -0.12851656 -0.1662754768 8.7171072528
## 367 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 368 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 369 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 370 -0.19805329 -0.19138696 -0.12851656 1.6730627207 -0.2111120988
## 371 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 372 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 373 3.45467672 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 374 -0.19805329 -0.19138696 -0.12851656 0.3592497224 -0.2111120988
## 375 -0.19805329 -0.19138696 -0.12851656 1.6868923312 -0.2111120988
## 376 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 377 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 378 -0.19805329 -0.19138696 -0.12851656 2.6273058457 -0.2111120988
## 379 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 380 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 381 -0.19805329 -0.19138696 -0.12851656 2.9038980558 -0.2111120988
## 382 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 383 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 384 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 385 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 386 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 387 -0.19805329 -0.19138696 -0.12851656 0.4975458275 -0.2111120988
## 388 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 389 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 390 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 391 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 392 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 393 -0.19805329 1.23054062 -0.12851656 -0.1662754768 -0.2111120988
## 394 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 395 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 396 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 397 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 398 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 399 -0.19805329 1.23054062 -0.12851656 -0.0418089823 -0.2111120988
## 400 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 401 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 402 -0.19805329 -0.04011807 0.34010527 -0.1524458663 -0.0526229979
## 403 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 404 1.33478877 0.26241972 -0.12851656 -0.1662754768 1.4266086107
## 405 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 406 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 407 -0.19805329 -0.19138696 -0.12851656 1.1613671319 -0.2111120988
## 408 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 409 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 410 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 411 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 412 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 413 -0.19805329 -0.19138696 1.35134185 -0.1662754768 -0.2111120988
## 414 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 415 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 416 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 417 -0.19805329 -0.19138696 -0.12851656 1.8113588257 -0.2111120988
## 418 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 419 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 420 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 421 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 422 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 423 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 424 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 425 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 426 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 427 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 428 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 429 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 430 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 431 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 432 2.34581226 0.98851040 -0.12851656 2.5443281826 3.9096045251
## 433 -0.19805329 -0.19138696 0.83339141 -0.1662754768 -0.2111120988
## 434 -0.19805329 -0.19138696 -0.12851656 4.4389848222 -0.2111120988
## 435 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 436 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 437 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 438 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 439 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 440 -0.19805329 1.77510863 -0.12851656 -0.1662754768 -0.2111120988
## 441 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 442 2.54149422 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 443 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 444 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 445 -0.19805329 -0.19138696 -0.12851656 0.2762720594 -0.2111120988
## 446 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 447 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 448 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 449 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 450 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 451 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 452 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 453 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 454 -0.19805329 0.62546506 -0.12851656 -0.1662754768 -0.2111120988
## 455 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 456 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 457 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 458 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 459 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 460 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 461 5.93331494 -0.19138696 -0.12851656 -0.1662754768 9.7208715587
## 462 -0.16543963 0.14140460 0.19211943 -0.1524458663 -0.2111120988
## 463 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 464 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 465 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 466 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 467 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.4228443049
## 468 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 469 -0.19805329 -0.19138696 -0.12851656 1.2166855739 -0.2111120988
## 470 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 471 1.49785707 1.38180952 -0.12851656 -0.1662754768 -0.2111120988
## 472 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 473 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 474 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 475 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 476 -0.19805329 -0.10062563 -0.12851656 -0.1247866453 -0.0526229979
## 477 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 478 0.48683359 0.44394239 -0.12851656 -0.1662754768 2.0077353141
## 479 11.86900121 -0.19138696 -0.12851656 4.9506804110 -0.2111120988
## 480 -0.19805329 1.10952551 -0.12851656 -0.1662754768 -0.2111120988
## 481 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 482 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 483 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 484 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 485 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 486 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 487 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 488 0.87819752 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 489 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 490 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 491 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 492 -0.19805329 -0.19138696 6.77748935 -0.1662754768 -0.2111120988
## 493 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 494 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 495 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 496 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 497 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 498 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 499 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 500 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 501 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 502 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 503 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 504 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 505 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 506 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 507 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 508 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 509 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 510 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 511 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 512 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 513 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 514 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 515 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 516 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 517 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 518 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 519 -0.19805329 -0.19138696 -0.12851656 -0.1386162558 -0.2111120988
## 520 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 521 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 522 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073

```

|    |     |             |             |             |               |               |
|----|-----|-------------|-------------|-------------|---------------|---------------|
| ## | 523 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.2111120988  |
| ## | 524 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 525 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 526 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 527 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 528 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 529 | -0.19805329 | 6.82748963  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 530 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 531 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 532 | -0.19805329 | -0.19138696 | -0.12851656 | 12.4048404746 | -0.2111120988 |
| ## | 533 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 534 | -0.19805329 | -0.19138696 | -0.12851656 | -0.0556385928 | -0.2111120988 |
| ## | 535 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 536 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 537 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 538 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 539 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 540 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 541 | -0.19805329 | -0.19138696 | 6.18554598  | -0.1662754768 | -0.2111120988 |
| ## | 542 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 543 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.8454819073  |
| ## | 544 | -0.19805329 | -0.19138696 | -0.12851656 | 0.1794647859  | -0.2111120988 |
| ## | 545 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 546 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 547 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 548 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 549 | -0.19805329 | -0.07037185 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 550 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 551 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 552 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 553 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 554 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 555 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 556 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 557 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 558 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 559 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 560 | -0.19805329 | -0.19138696 | 3.05317902  | -0.1662754768 | -0.2111120988 |
| ## | 561 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 562 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 563 | 0.16069698  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 564 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 565 | 0           |             |             |               |               |

```

## 577 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 578 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 579 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 580 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 581 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 582 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 583 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 584 2.34581226 2.16840775 -0.12851656 -0.1662754768 -0.2111120988
## 585 -0.19805329 -0.19138696 -0.12851656 -0.0141497613 -0.2111120988
## 586 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 587 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 588 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 589 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 590 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 591 -0.19805329 14.20941155 -0.12851656 -0.1662754768 -0.2111120988
## 592 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 593 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 594 -0.19805329 -0.19138696 -0.12851656 2.3230544145 -0.2111120988
## 595 5.44411003 2.41043798 -0.12851656 -0.1662754768 8.9284260541
## 596 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 597 1.69353904 -0.19138696 -0.12851656 0.6358419326 -0.2111120988
## 598 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 599 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 600 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 601 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 602 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 603 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 604 -0.19805329 -0.19138696 -0.12851656 4.7708954744 -0.2111120988
## 605 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 606 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 607 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 608 1.49785707 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 609 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 610 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 611 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 612 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 613 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 614 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 615 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 616 1.82399368 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 617 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 618 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 619 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 620 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 621 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 622 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 623 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 624 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 625 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 626 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 627 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 628 -0.19805329 6.19216028 -0.12851656 -0.1662754768 -0.2111120988
## 629 1.88922100 -0.19138696 -0.12851656 -0.1662754768 3.1699887208
## 630 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 631 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 632 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 633 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 634 -0.19805329 0.44394239 -0.12851656 -0.1662754768 -0.2111120988
## 635 -0.19805329 -0.19138696 -0.12851656 0.1794647859 -0.2111120988
## 636 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 637 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 638 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 639 -0.19805329 -0.19138696 1.37600616 -0.1662754768 -0.2111120988
## 640 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 641 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 642 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 643 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 644 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 645 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 646 0.91081118 1.86586997 -0.12851656 -0.1662754768 3.3813075220
## 647 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 648 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 649 -0.19805329 -0.19138696 -0.12851656 3.1943198765 -0.2111120988
## 650 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 651 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 652 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 653 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 654 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 655 0.84558386 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 656 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 657 -0.19805329 -0.19138696 -0.12851656 1.0922190794 -0.2111120988
## 658 0.16069698 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 659 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 660 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 661 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 662 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 663 -0.19805329 1.23054062 -0.12851656 -0.1662754768 -0.2111120988
## 664 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 665 -0.19805329 -0.19138696 2.36257843 -0.1662754768 1.5322680113
## 666 -0.19805329 2.53145309 -0.12851656 -0.1662754768 -0.2111120988
## 667 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 668 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 669 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 670 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 671 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 672 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 673 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 674 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 675 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 676 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 677 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 678 -0.19805329 0.32292727 -0.12851656 -0.1662754768 -0.2111120988
## 679 0.16069698 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 680 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 681 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 682 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 683 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 684 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 685 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 686 0.81297020 -0.19138696 -0.12851656 1.1337079109 -0.2111120988
## 687 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 688 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 689 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 690 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 691 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 692 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 693 0.87819752 -0.19138696 3.15183625 -0.1662754768 -0.2111120988
## 694 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 695 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 696 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 697 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 698 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 699 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.6907571122
## 700 -0.19805329 -0.19138696 -0.12851656 1.2996632370 -0.2111120988
## 701 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 702 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 703 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 704 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 705 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 706 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 707 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 708 -0.19805329 -0.19138696 1.12936309 -0.1662754768 -0.2111120988
## 709 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 710 0.91081118 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 711 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 712 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 713 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 714 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 715 1.72615270 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 716 -0.19805329 12.39418485 -0.12851656 -0.1662754768 -0.2111120988
## 717 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 718 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 719 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 720 -0.19805329 -0.19138696 -0.12851656 1.5347666156 -0.2111120988
## 721 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 722 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 723 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 724 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 725 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 726 -0.19805329 -0.19138696 1.74597076 -0.1662754768 -0.2111120988
## 727 0.84558386 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 728 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 729 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 730 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 731 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 732 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 733 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 734 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 735 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 736 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 737 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 738 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 739 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 740 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 741 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 742 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 743 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 744 -0.19805329 -0.19138696 3.76844392 -0.1662754768 -0.2111120988
## 745 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 746 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 747 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 748 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 749 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 750 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 751 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 752 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 753 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 754 -0.19805329 -0.19138696 -0.12851656 0.4422273855 -0.2111120988
## 755 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 756 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 757 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 758 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 759 3.87865431 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 760 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 761 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 762 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 763 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 764 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 765 0.84558386 0.77673395 -0.12851656 -0.1662754768 3.1699887208
## 766 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 767 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 768 -0.19805329 -0.19138696 -0.12851656 4.2868591066 5.4416658339
## 769 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 770 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 771 13.36922961 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 772 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 773 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 774 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 775 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 776 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 777 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 778 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 779 -0.19805329 -0.19138696 -0.12851656 2.4336912986 -0.2111120988
## 780 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.6869928064
## 781 0.84558386 -0.19138696 -0.12851656 -0.1662754768 1.4794383110
## 782 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 783 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 784 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 785 3.25899476 -0.19138696 -0.12851656 2.7656019508 -0.2111120988
## 786 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 787 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 788 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 789 2.80240351 -0.19138696 -0.12851656 -0.1662754768 4.6492203293
## 790 -0.19805329 0.89774906 -0.12851656 -0.1662754768 -0.2111120988
## 791 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 792 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 793 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 794 0.74774288 -0.19138696 2.73254303 -0.1662754768 -0.2111120988
## 795 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 796 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 797 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 798 2.08490297 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 799 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 800 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 801 -0.19805329 0.53470372 -0.12851656 -0.1662754768 1.0568007086
## 802 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 803 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 804 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 805 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 806 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 807 -0.19805329 -0.19138696 -0.12851656 1.8666772678 -0.2111120988
## 808 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 809 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 810 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 811 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 812 -0.19805329 -0.19138696 -0.12851656 2.0741214254 -0.2111120988
## 813 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 814 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 815 -0.19805329 12.93875286 -0.12851656 -0.1662754768 -0.2111120988
## 816 -0.19805329 12.93875286 -0.12851656 -0.1662754768 -0.2111120988
## 817 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 818 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 819 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 820 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 821 -0.19805329 0.65571883 -0.12851656 0.2209536174 2.7473511183
## 822 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 823 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 824 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 825 -0.19805329 1.35155574 -0.12851656 -0.1662754768 -0.2111120988
## 826 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 827 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 828 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 829 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 830 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 831 -0.19805329 1.44231707 -0.12851656 -0.1662754768 2.6416917177
## 832 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 833 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 834 -0.19805329 1.44231707 -0.12851656 -0.1662754768 -0.2111120988
## 835 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 836 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 837 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 838 0.03024234 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 839 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 840 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 841 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 842 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 843 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 844 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 845 0.09546966 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 846 -0.19805329 0.53470372 -0.12851656 -0.1662754768 1.0568007086

```

```

## 847 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 848 1.53047074 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 849 -0.19805329 8.18890965 -0.12851656 -0.1662754768 -0.2111120988
## 850 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.6907571122
## 851 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 852 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 853 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 854 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 855 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 856 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 857 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 858 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 859 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 860 -0.19805329 -0.19138696 12.20363685 -0.1662754768 -0.2111120988
## 861 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.7926522070
## 862 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 863 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 864 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 865 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 866 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 867 3.68297235 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 868 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 869 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 870 -0.19805329 -0.19138696 -0.12851656 0.1794647859 -0.2111120988
## 871 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 872 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 873 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 874 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 875 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 876 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 877 -0.19805329 -0.19138696 0.06879790 -0.1662754768 -0.2111120988
## 878 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 879 -0.19805329 -0.19138696 -0.12851656 2.7656019508 -0.2111120988
## 880 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 881 -0.19805329 2.41043798 -0.12851656 -0.1662754768 4.3322421275
## 882 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 883 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 884 1.56308440 -0.19138696 -0.12851656 3.5677193602 -0.2111120988
## 885 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 886 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 887 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 888 -0.19805329 -0.19138696 -0.12851656 2.1709286989 -0.2111120988
## 889 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 890 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 891 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 892 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 893 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 894 -0.19805329 1.20028685 -0.12851656 -0.1662754768 -0.2111120988
## 895 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.0568007086
## 896 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 897 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 898 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 899 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 900 1.20433413 -0.19138696 -0.12851656 -0.1662754768 2.0605650144

```

|        |             |             |             |               |               |
|--------|-------------|-------------|-------------|---------------|---------------|
| ## 901 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.7926522070  |
| ## 902 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 7.5548538461  |
| ## 903 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 904 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 905 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 906 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 907 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 908 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 909 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 910 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 911 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 912 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 913 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 914 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 915 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 916 | -0.19805329 | -0.19138696 | -0.12851656 | 1.0783894688  | -0.2111120988 |
| ## 917 | 2.21535761  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 918 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 919 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 920 | 2.18274395  | 2.01713886  | -0.12851656 | -0.1662754768 | 3.6454560235  |
| ## 921 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 922 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 923 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 924 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 925 | -0.19805329 | 0.47419616  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 926 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 927 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 928 | -0.19805329 | -0.19138696 | -0.12851656 | -0.0832978138 | -0.2111120988 |
| ## 929 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 930 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 931 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.7926522070  |
| ## 932 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 933 | -0.19805329 | 0.53470372  | -0.12851656 | -0.1662754768 | 1.0568007086  |
| ## 934 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 935 | -0.19805329 | 0.83724150  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 936 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 937 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 938 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 939 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 940 | -0.19805329 | -0.19138696 | -0.12851656 | 0.8986045322  | -0.2111120988 |
| ## 941 | -0.19805329 | 1.13977929  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 942 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 943 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 944 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 945 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 946 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 947 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 948 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 949 | -0.19805329 | 0.65571883  | -0.12851656 | -0.1662754768 | 1.2681195098  |
| ## 950 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 951 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 952 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 953 | 0.81297020  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## 954 | 1.53047074  | 1.41206329  | -0.12851656 | -0.1662754768 | -0.2111120988 |

|    |     |             |             |             |               |               |
|----|-----|-------------|-------------|-------------|---------------|---------------|
| ## | 955 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.2111120988  |
| ## | 956 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 957 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 958 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 959 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 960 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 961 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 962 | 5.02013244  | -0.19138696 | -0.12851656 | 0.5666938801  | 5.3888361336  |
| ## | 963 | 2.63933520  | 1.56333219  | -0.12851656 | 1.0369006373  | 1.3209492101  |
| ## | 964 | -0.19805329 | 1.35155574  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 965 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 966 | -0.19805329 | -0.00986429 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 967 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 968 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 969 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 970 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 971 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 972 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 973 | 3.58513137  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 974 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 975 | -0.19805329 | -0.19138696 | 0.63607695  | -0.1662754768 | -0.2111120988 |
| ## | 976 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 977 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 978 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 979 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 980 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 981 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 982 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 983 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 984 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 985 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 986 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 1.7435868125  |
| ## | 987 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 988 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 989 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 990 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 991 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 992 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 993 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 994 | -0.19805329 | 0.65571883  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 995 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 996 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 997 | -0.         |             |             |               |               |

|    |      |             |             |             |               |               |
|----|------|-------------|-------------|-------------|---------------|---------------|
| ## | 1009 | 0.45421993  | 0.41368861  | -0.12851656 | -0.1662754768 | 0.8454819073  |
| ## | 1010 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1011 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1012 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1013 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1014 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1015 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1016 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1017 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1018 | 1.85660734  | 1.71460108  | -0.12851656 | -0.1662754768 | 3.1171590201  |
| ## | 1019 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1020 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1021 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1022 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1023 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1024 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1025 | -0.19805329 | -0.19138696 | -0.12851656 | 6.6240632824  | -0.2111120988 |
| ## | 1026 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1027 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1028 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1029 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 1.6907571122  |
| ## | 1030 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 5.9699628370  |
| ## | 1031 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1032 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1033 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1034 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1035 | -0.19805329 | -0.19138696 | -0.12851656 | -0.0141497613 | -0.2111120988 |
| ## | 1036 | 0.68251555  | 0.62546506  | -0.12851656 | -0.1662754768 | 1.2152898095  |
| ## | 1037 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1038 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1039 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1040 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1041 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1042 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1043 | 1.92183467  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1044 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1045 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1046 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1047 | -0.19805329 | -0.19138696 | -0.12851656 | 1.0783894688  | -0.2111120988 |
| ## | 1048 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1049 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1050 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 |               |

|    |      |             |             |             |               |               |
|----|------|-------------|-------------|-------------|---------------|---------------|
| ## | 1063 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.4756740052  |
| ## | 1064 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1065 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1066 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1067 | -0.19805329 | 0.29267349  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1068 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1069 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.8454819073  |
| ## | 1070 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1071 | -0.19805329 | -0.19138696 | 3.27515778  | -0.1662754768 | -0.2111120988 |
| ## | 1072 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1073 | -0.19805329 | -0.19138696 | -0.12851656 | 4.3560071591  | -0.2111120988 |
| ## | 1074 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1075 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1076 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1077 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.1058661031  |
| ## | 1078 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1079 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1080 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1081 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1082 | -0.19805329 | 6.19216028  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1083 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1084 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1085 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1086 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1087 | 13.36922961 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1088 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1089 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1090 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1091 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1092 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1093 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1094 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1095 | 0.45421993  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1096 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1097 | 0.45421993  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1098 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1099 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1100 | -0.19805329 | -0.19138696 | -0.12851656 | 0.1794647859  | -0.2111120988 |
| ## | 1101 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1102 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1103 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1104 | -0.19805329 | -0.19138696 | -0.12851656 | -0.166275476  |               |

```

## 1117 -0.19805329 -0.19138696 4.75501619 -0.1662754768 -0.2111120988
## 1118 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1119 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1120 2.54149422 -0.19138696 -0.12851656 -0.1662754768 4.2265827269
## 1121 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1122 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1123 -0.19805329 -0.19138696 2.16526397 -0.1662754768 1.4266086107
## 1124 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 1125 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1126 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1127 -0.19805329 -0.19138696 -0.12851656 2.4060320776 -0.2111120988
## 1128 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1129 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1130 -0.19805329 -0.19138696 0.51275542 -0.1662754768 -0.2111120988
## 1131 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1132 -0.19805329 -0.19138696 2.18992828 -0.1662754768 -0.2111120988
## 1133 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1134 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1135 2.28058493 -0.19138696 -0.12851656 0.8847749217 3.8039451244
## 1136 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1137 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1138 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1139 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1140 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1141 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1142 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1143 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1144 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1145 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1146 0.61728823 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1147 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1148 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 18.6490909103
## 1149 4.66138217 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1150 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1151 -0.19805329 -0.19138696 -0.12851656 0.0549982913 -0.2111120988
## 1152 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1153 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1154 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1155 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1156 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1157 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1158 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1159 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1160 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1161 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1162 -0.19805329 -0.19138696 -0.12851656 0.2071240069 -0.2111120988
## 1163 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1164 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1165 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1166 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1167 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 1168 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1169 -0.19805329 8.97550789 -0.12851656 -0.1662754768 -0.2111120988
## 1170 2.76978985 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1171 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1172 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1173 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 1174 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1175 -0.19805329 -0.19138696 -0.12851656 0.9954118058 -0.2111120988
## 1176 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1177 2.28058493 2.10790020 -0.12851656 -0.1662754768 -0.2111120988
## 1178 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1179 -0.19805329 -0.19138696 -0.12851656 2.9177276664 -0.2111120988
## 1180 -0.19805329 1.20028685 -0.12851656 -0.1662754768 -0.2111120988
## 1181 -0.19805329 0.56495750 -0.12851656 -0.1662754768 -0.2111120988
## 1182 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1183 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1184 -0.19805329 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 1185 -0.19805329 -0.19138696 -0.12851656 5.9740715885 -0.2111120988
## 1186 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1187 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1188 3.74819967 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1189 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1190 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1191 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 1192 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1193 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1194 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1195 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1196 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 1197 1.95444833 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1198 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1199 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1200 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1201 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1202 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 1203 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1204 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1205 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1206 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1207 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.7435868125
## 1208 -0.19805329 1.23054062 -0.12851656 -0.0418089823 -0.2111120988
## 1209 -0.19805329 -0.19138696 -0.12851656 1.0783894688 -0.2111120988
## 1210 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1211 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1212 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1213 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1214 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1215 -0.19805329 0.77673395 -0.12851656 -0.1662754768 1.4794383110
## 1216 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1217 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1218 1.88922100 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1219 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1220 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1221 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1222 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1223 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1224 3.29160842 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 1225 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 1226 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 5.9171331367
## 1227 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1228 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1229 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1230 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1231 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1232 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1233 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1234 -0.19805329 0.86749528 -0.12851656 -0.1662754768 3.4869669226
## 1235 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1236 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1237 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1238 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1239 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1240 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 1241 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1242 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.0568007086
## 1243 -0.19805329 0.83724150 -0.12851656 -0.1662754768 -0.2111120988
## 1244 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1245 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1246 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1247 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1248 -0.19805329 -0.19138696 -0.12851656 1.6454034997 -0.2111120988
## 1249 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1250 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1251 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1252 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 1253 1.88922100 1.74485486 5.44561678 -0.1662754768 3.1699887208
## 1254 -0.19805329 -0.19138696 1.12936309 -0.1662754768 -0.2111120988
## 1255 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1256 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1257 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1258 -0.19805329 2.01713886 -0.12851656 -0.1662754768 3.6454560235
## 1259 -0.19805329 -0.19138696 0.43876250 -0.1662754768 -0.2111120988
## 1260 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1261 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1262 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1263 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1264 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1265 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1266 -0.19805329 -0.19138696 -0.12851656 15.1984217971 -0.2111120988
## 1267 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 1268 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1269 -0.19805329 2.04739264 -0.12851656 -0.1662754768 -0.2111120988
## 1270 -0.19805329 1.86586997 -0.12851656 -0.1662754768 3.3813075220
## 1271 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1272 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1273 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1274 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1275 0.16069698 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 1276 -0.19805329 1.47257085 -0.12851656 -0.1662754768 -0.2111120988
## 1277 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1278 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064

```

|    |      |             |             |             |               |               |
|----|------|-------------|-------------|-------------|---------------|---------------|
| ## | 1279 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | 0.2111120988  |
| ## | 1280 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1281 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1282 | -0.19805329 | 1.47257085  | -0.12851656 | -0.1662754768 | 2.6945214180  |
| ## | 1283 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1284 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1285 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1286 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1287 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1288 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1289 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1290 | 0.81297020  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1291 | -0.19805329 | -0.19138696 | -0.12851656 | 0.0549982913  | -0.2111120988 |
| ## | 1292 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1293 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1294 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1295 | -0.19805329 | 0.53470372  | -0.12851656 | -0.1662754768 | 1.0568007086  |
| ## | 1296 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1297 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1298 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1299 | -0.19805329 | -0.00986429 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1300 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1301 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1302 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1303 | 0.94342484  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1304 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1305 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1306 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1307 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1308 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1309 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1310 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1311 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1312 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1313 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1314 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1315 | -0.19805329 | 0.29267349  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1316 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1317 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1318 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1319 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1320 | 0.09546966  | -0.19138696 | -0.12851656 | -0.1662754768 |               |

|    |      |             |             |             |                 |               |
|----|------|-------------|-------------|-------------|-----------------|---------------|
| ## | 1333 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | 0.2111120988  |
| ## | 1334 | 0.87819752  | 0.80698773  | -0.12851656 | -0.1662754768   | 1.5322680113  |
| ## | 1335 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1336 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1337 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1338 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1339 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1340 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1341 | -0.19805329 | 0.05064327  | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1342 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | 2.536032317   |
| ## | 1343 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1344 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | 1.1624601092  |
| ## | 1345 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1346 | 1.75876636  | -0.19138696 | -0.12851656 | -0.1662754768   | 2.9586699196  |
| ## | 1347 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1348 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1349 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1350 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | 0.1058661031  |
| ## | 1351 | 0.94342484  | -0.19138696 | -0.12851656 | -0.1662754768   | 1.6379274119  |
| ## | 1352 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1353 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1354 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1355 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1356 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1357 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1358 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1359 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1360 | -0.19805329 | -0.19138696 | 0.43876250  | -0.1662754768   | -0.2111120988 |
| ## | 1361 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1362 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1363 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1364 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1365 | -0.19805329 | 0.32292727  | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1366 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1367 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1368 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1369 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1370 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1371 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1372 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1373 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768   | -0.2111120988 |
| ## | 1374 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768</ |               |

```

## 1387 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1388 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1389 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1390 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1391 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1392 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1393 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1394 0.81297020 -0.19138696 -0.12851656 -0.1662754768 1.4266086107
## 1395 4.04172262 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1396 -0.19805329 0.02038949 -0.12851656 -0.1662754768 0.1586958034
## 1397 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1398 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1399 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1400 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1401 -0.19805329 -0.19138696 0.04413359 -0.1662754768 -0.2111120988
## 1402 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1403 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1404 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1405 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1406 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1407 -0.19805329 -0.19138696 -0.12851656 8.7538233006 -0.2111120988
## 1408 0.42160627 -0.19138696 -0.12851656 0.3592497224 -0.2111120988
## 1409 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1410 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1411 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 2.3247135159
## 1412 -0.19805329 -0.19138696 1.00604155 -0.1662754768 -0.2111120988
## 1413 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1414 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1415 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1416 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 1417 -0.19805329 -0.19138696 17.48179851 -0.1662754768 -0.2111120988
## 1418 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1419 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1420 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1421 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1422 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1423 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1424 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1425 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1426 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1427 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1428 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1429 0.32376529 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1430 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1431 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1432 1.59569806 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 1433 -0.19805329 -0.19138696 -0.12851656 2.0741214254 -0.2111120988
## 1434 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1435 4.36785923 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1436 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1437 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1438 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1439 2.28058493 2.10790020 -0.12851656 -0.1662754768 -0.2111120988
## 1440 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1441 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1442 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1443 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1444 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1445 0.22592430 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1446 -0.19805329 -0.19138696 -0.12851656 1.5762554471 -0.2111120988
## 1447 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1448 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1449 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1450 -0.19805329 -0.19138696 -0.12851656 1.2443447949 -0.2111120988
## 1451 -0.19805329 -0.19138696 -0.12851656 3.8996300124 -0.2111120988
## 1452 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1453 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1454 -0.19805329 2.10790020 -0.12851656 0.8847749217 -0.2111120988
## 1455 -0.19805329 -0.19138696 3.42314362 -0.1662754768 7.3963647452
## 1456 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1457 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1458 0.97603850 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1459 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1460 -0.19805329 -0.19138696 -0.12851656 0.8986045322 -0.2111120988
## 1461 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1462 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1463 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1464 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1465 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1466 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1467 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1468 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1469 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1470 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1471 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1472 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1473 -0.19805329 6.19216028 -0.12851656 -0.1662754768 -0.2111120988
## 1474 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1475 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1476 -0.19805329 -0.19138696 -0.12851656 7.5091583549 -0.2111120988
## 1477 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1478 -0.19805329 0.29267349 0.26611235 -0.1662754768 -0.2111120988
## 1479 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1480 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1481 -0.19805329 0.47419616 -0.12851656 -0.1662754768 -0.2111120988
## 1482 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1483 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1484 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1485 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.1058661031
## 1486 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1487 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1488 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1489 0.48683359 0.44394239 -0.12851656 -0.1662754768 2.0077353141
## 1490 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1491 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1492 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1493 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1494 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1495 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1496 6.38990620 -0.19138696 -0.12851656 -0.1662754768 5.1246876321
## 1497 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1498 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1499 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1500 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1501 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1502 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1503 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1504 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1505 1.85660734 1.71460108 5.34695955 -0.1662754768 3.1171590205
## 1506 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1507 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1508 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 5.1775173324
## 1509 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1510 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1511 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1512 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1513 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1514 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1515 6.12899691 -0.19138696 4.65635896 -0.1662754768 10.0378497605
## 1516 2.57410788 2.38018420 -0.12851656 -0.1662754768 4.2794124272
## 1517 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1518 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1519 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1520 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1521 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1522 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1523 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1524 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1525 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1526 5.41149637 -0.19138696 4.11374421 -0.1662754768 8.8755963538
## 1527 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1528 -0.19805329 1.20028685 -0.12851656 -0.1662754768 2.2190541153
## 1529 0.94342484 -0.19138696 -0.12851656 -0.1662754768 1.6379274119
## 1530 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1531 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1532 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1533 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1534 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1535 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1536 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1537 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1538 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1539 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1540 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1541 -0.19805329 1.35155574 -0.12851656 -0.1662754768 -0.2111120988
## 1542 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1543 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1544 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.2643552040
## 1545 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1546 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1547 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1548 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1549 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1550 -0.19805329 -0.19138696 -0.12851656 3.7751635178 -0.2111120988
## 1551 1.66092538 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1552 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1553 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1554 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1555 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1556 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1557 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1558 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1559 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1560 1.92183467 -0.19138696 -0.12851656 -0.1662754768 3.2228184211
## 1561 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1562 -0.19805329 3.34830511 -0.12851656 -0.1662754768 -0.2111120988
## 1563 -0.19805329 -0.19138696 -0.12851656 0.4560569960 -0.2111120988
## 1564 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1565 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1566 3.74819967 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1567 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1568 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1569 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1570 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1571 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1572 -0.19805329 -0.19138696 -0.12851656 4.1070741700 -0.2111120988
## 1573 -0.19805329 0.74648017 -0.12851656 -0.1662754768 -0.2111120988
## 1574 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1575 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1576 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1577 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.5285037055
## 1578 4.72660949 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1579 -0.19805329 -0.19138696 6.77748935 -0.1662754768 -0.2111120988
## 1580 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1581 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 1582 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1583 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1584 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1585 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1586 -0.19805329 1.65409352 -0.12851656 -0.1662754768 3.0114996199
## 1587 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.7398225067
## 1588 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1589 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1590 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1591 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1592 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1593 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1594 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1595 1.49785707 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1596 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1597 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1598 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1599 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1600 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1601 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1602 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

|    |      |             |             |             |               |               |
|----|------|-------------|-------------|-------------|---------------|---------------|
| ## | 1603 | -0.19805329 | -0.19138696 | -0.12851656 | 2.9038980558  | 0.2111120988  |
| ## | 1604 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1605 | 2.11751663  | -0.19138696 | -0.12851656 | -0.1662754768 | 3.5397966229  |
| ## | 1606 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1607 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1608 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1609 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1610 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1611 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1612 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1613 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1614 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1615 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1616 | -0.19805329 | 1.32130196  | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1617 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1618 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1619 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1620 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1621 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1622 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1623 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1624 | 0.12808332  | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1625 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1626 | -0.19805329 | 0.53470372  | -0.12851656 | -0.1662754768 | 1.0568007086  |
| ## | 1627 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1628 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1629 | -0.19805329 | -0.19138696 | -0.12851656 | 19.5824083280 | -0.2111120988 |
| ## | 1630 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1631 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1632 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1633 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1634 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1635 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1636 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1637 | -0.19805329 | -0.19138696 | -0.12851656 | 1.4379593420  | -0.2111120988 |
| ## | 1638 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1639 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1640 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1641 | -0.19805329 | -0.19138696 | -0.12851656 | 1.3964705105  | -0.2111120988 |
| ## | 1642 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1643 | -0.19805329 | -0.19138696 | -0.12851656 | -0.1662754768 | -0.2111120988 |
| ## | 1644 | -0.19805329 | -0.19138696 | -0.12851656 | -0.166275476  |               |



```

## 1657 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1658 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1659 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1660 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 1661 -0.19805329 -0.19138696 7.44342563 -0.1662754768 7.8718320480
## 1662 3.78081333 1.65409352 -0.12851656 -0.1662754768 -0.2111120988
## 1663 -0.19805329 -0.19138696 -0.12851656 15.1984217971 -0.2111120988
## 1664 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1665 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1666 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1667 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1668 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1669 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1670 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1671 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1672 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1673 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1674 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1675 0.09546966 0.08089704 -0.12851656 -0.1662754768 -0.2111120988
## 1676 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1677 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1678 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1679 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1680 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1681 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1682 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1683 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1684 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1685 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1686 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1687 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1688 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1689 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 2.3775432162
## 1690 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064
## 1691 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1692 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1693 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1694 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1695 0.81297020 -0.19138696 -0.12851656 -0.1662754768 1.4266086107
## 1696 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1697 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1698 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1699 -0.19805329 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 1700 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1701 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1702 1.56308440 -0.19138696 -0.12851656 3.5677193602 -0.2111120988
## 1703 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1704 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1705 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1706 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1707 -0.13282597 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1708 -0.19805329 -0.04011807 -0.12851656 -0.0141497613 -0.2111120988
## 1709 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1710 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1711 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1712 -0.19805329 0.98851040 -0.12851656 0.3730793330 1.8492462131
## 1713 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1714 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1715 -0.19805329 -0.19138696 3.71911530 -0.1662754768 -0.2111120988
## 1716 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1717 -0.19805329 -0.19138696 0.11812651 -0.1662754768 -0.2111120988
## 1718 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1719 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1720 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1721 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1722 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1723 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 1724 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 6.5510895403
##          V44          V45          V46          V47          V48
## 1  -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 2  -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 3  -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 4  -1.617851e-01 2.9106963867 -0.21141009 -0.07869442 -0.10740623
## 5  -1.617851e-01 0.2162083362 0.32441308 -0.07869442 -0.10740623
## 6  -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 7  -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 8  -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 9  -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 10 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 0.42779264
## 11 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 12 -1.617851e-01 -0.3430250327 0.77499165 -0.07869442 -0.10740623
## 13 -2.698615e-02 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 14 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 15 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 16 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 17 6.470321e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 18 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 19 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 20 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 21 -1.617851e-01 -0.3430250327 1.11597003 -0.07869442 -0.10740623
## 22 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 23 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 24 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 25 -1.617851e-01 0.2670477334 0.96983644 -0.07869442 -0.10740623
## 26 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 27 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 28 6.766879e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 29 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 30 -1.617851e-01 3.5080593036 -0.21141009 -0.07869442 -0.10740623
## 31 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 32 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 33 -1.617851e-01 0.0001408982 -0.05309870 -0.07869442 -0.10740623
## 34 -1.617851e-01 1.3219652249 -0.21141009 -0.07869442 -0.10740623
## 35 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 36 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 37 -1.617851e-01 2.0972660319 2.12672737 -0.07869442 -0.10740623
## 38 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 39 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 40 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 41 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 42 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 43 -1.617851e-01 9.4308490749 9.15331753 -0.07869442 -0.10740623
## 44 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 45 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 46 -1.617851e-01 0.5212447193 0.61668026 -0.07869442 -0.10740623
## 47 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 48 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 49 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 50 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 51 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 52 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 53 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 54 1.617561e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 55 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 56 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 -0.10740623
## 57 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 58 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 59 -1.617851e-01 -0.3430250327 0.31223528 -0.07869442 -0.10740623
## 60 5.122332e+00 -0.3430250327 0.98201424 -0.07869442 -0.10740623
## 61 -1.617851e-01 10.2442794298 -0.21141009 -0.07869442 -0.10740623
## 62 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 63 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 64 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 65 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 66 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 67 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 68 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 69 -1.617851e-01 0.3051772813 -0.21141009 -0.07869442 -0.10740623
## 70 -1.617851e-01 1.2457061291 2.83303972 -0.07869442 -0.10740623
## 71 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 72 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 73 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 74 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 75 -1.617851e-01 3.2792820163 -0.21141009 -0.07869442 -0.10740623
## 76 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 77 -1.617851e-01 0.7373121573 -0.21141009 -0.07869442 -0.10740623
## 78 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 79 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 80 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 81 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 82 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 83 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 84 -1.617851e-01 -0.3430250327 0.53143567 -0.07869442 0.29399292
## 85 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 86 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 87 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 88 -1.617851e-01 0.1526590898 -0.21141009 -0.07869442 -0.10740623
## 89 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 90 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 91 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 92 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 93 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 94 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 95 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 96 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 97 -1.617851e-01 -0.3430250327 8.48353858 -0.07869442 -0.10740623
## 98 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 99 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 100 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 101 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 102 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 103 -1.617851e-01 1.2838356770 -0.21141009 -0.07869442 -0.10740623
## 104 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 105 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 106 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 107 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 108 -1.617851e-01 -0.3430250327 0.48272447 -0.07869442 -0.10740623
## 109 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 110 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 111 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 112 8.249667e+00 3.6224479472 -0.21141009 -0.07869442 -0.10740623
## 113 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 114 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 115 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 116 -1.617851e-01 -0.0888280468 0.03214590 -0.07869442 -0.10740623
## 117 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 118 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 119 -1.617851e-01 4.1943911655 4.13606424 -0.07869442 -0.10740623
## 120 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 121 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 122 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 123 -1.617851e-01 -0.3430250327 0.76281385 -0.07869442 -0.10740623
## 124 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 125 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 126 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 127 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 128 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 129 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 130 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 131 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 132 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 133 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 134 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 135 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 136 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 137 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 138 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 139 -1.617851e-01 -0.3430250327 0.88459184 -0.07869442 -0.10740623
## 140 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 141 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 142 1.644520e+00 0.5085348700 -0.21141009 -0.07869442 -0.10740623
## 143 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 144 -1.617851e-01 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 145 -5.394593e-02 -0.2286363891 -0.21141009 -0.07869442 -0.10740623
## 146 7.009279e-01 0.0636901447 0.56796906 -0.07869442 -0.10740623
## 147 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 148 -1.617851e-01 -0.3430250327 -0.21141009 0.92139856 -0.10740623
## 149 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 150 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 151 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 -0.10740623
## 152 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 153 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 154 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 155 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 156 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 157 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 158 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 159 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 160 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 161 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 162 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 163 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 164 -1.617851e-01 1.3855144714 0.61668026 -0.07869442 -0.10740623
## 165 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 166 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 167 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 168 6.092884e+00 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 169 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 170 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 171 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 172 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 173 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 174 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 175 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 176 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 177 -1.617851e-01 1.3855144714 0.61668026 -0.07869442 -0.10740623
## 178 -1.617851e-01 0.2034984869 -0.21141009 -0.07869442 -0.10740623
## 179 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 180 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 181 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 182 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 183 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 184 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 185 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 186 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 187 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 188 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 189 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 190 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 191 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 192 -1.617851e-01 2.3514630178 1.07943663 -0.07869442 -0.10740623
## 193 -1.617851e-01 -0.3430250327 3.44192969 -0.07869442 0.34751281
## 194 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 195 -1.617851e-01 -0.3430250327 1.99277158 -0.07869442 -0.10740623
## 196 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 197 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 198 5.122095e-01 -0.3430250327 -0.21141009 -0.07869442 0.56159235
## 199 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 200 -1.617851e-01 0.5466644179 -0.04092090 -0.07869442 -0.10740623
## 201 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 202 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 203 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 204 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 205 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 206 -1.617851e-01 1.4363538685 -0.21141009 -0.07869442 -0.10740623
## 207 -1.617851e-01 -0.3430250327 2.61383934 -0.07869442 -0.10740623
## 208 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 209 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 210 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 211 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 212 -1.617851e-01 6.7109413259 -0.21141009 -0.07869442 -0.10740623
## 213 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 214 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 215 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 216 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 217 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 218 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 219 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 220 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 221 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 222 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 223 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 224 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 225 -1.617851e-01 4.5375570965 -0.21141009 -0.07869442 -0.10740623
## 226 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 227 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 228 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 229 1.590601e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 230 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 231 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 232 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 233 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 234 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 1.49819037
## 235 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 236 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 237 -1.617851e-01 0.2924674320 -0.21141009 -0.07869442 -0.10740623
## 238 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 239 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 240 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 241 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 242 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 243 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 244 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 245 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 246 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 247 -1.617851e-01 1.7032607037 1.74921559 -0.07869442 -0.10740623
## 248 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 249 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 250 4.583136e+00 -0.3430250327 -0.21141009 -0.07869442 2.24746878
## 251 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 252 -1.617851e-01 0.9533795953 0.20263509 -0.07869442 -0.10740623
## 253 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 254 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 255 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 256 -1.617851e-01 0.1780787884 0.54361346 -0.07869442 0.42779264
## 257 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 258 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 259 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 260 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 261 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 262 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 263 4.690976e+00 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 264 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 265 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 266 -1.617851e-01 1.0804780883 -0.21141009 -0.07869442 -0.10740623
## 267 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 268 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 269 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 270 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 271 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 272 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 273 -1.617851e-01 2.3895925656 -0.21141009 -0.07869442 -0.10740623
## 274 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 275 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 276 -1.617851e-01 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 277 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 278 -1.617851e-01 0.3051772813 0.09303489 -0.07869442 -0.10740623
## 279 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 280 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 281 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 282 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 283 -1.617851e-01 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 284 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 285 -1.617851e-01 4.5375570965 -0.21141009 -0.07869442 -0.10740623
## 286 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 287 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 288 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 289 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 290 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 291 6.928637e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 292 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 293 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 294 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 295 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 296 4.906654e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 297 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 298 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 299 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 300 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 301 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 302 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 303 -1.617851e-01 0.9406697460 -0.21141009 -0.07869442 -0.10740623
## 304 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 305 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 306 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 307 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 308 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 309 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623

```

```

## 310 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 311 -1.617851e-01 0.5593742672 -0.21141009 -0.07869442 -0.10740623
## 312 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 313 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 314 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 315 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 316 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 317 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 318 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 319 1.401882e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 320 -1.617851e-01 3.0250850304 -0.21141009 -0.07869442 -0.10740623
## 321 4.582899e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 322 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 323 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 324 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 325 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 326 -1.617851e-01 0.2543378841 -0.21141009 -0.07869442 -0.10740623
## 327 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 328 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 329 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 330 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 331 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 0.40103269
## 332 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 333 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 334 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 2.35450855
## 335 3.127308e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 336 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 337 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 338 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 339 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 340 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 341 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 342 -1.617851e-01 -0.1905068412 -0.21141009 -0.07869442 -0.10740623
## 343 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 344 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 345 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 346 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 347 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 348 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 349 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 350 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 351 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 352 -1.617851e-01 0.7246023080 0.81152505 -0.07869442 -0.10740623
## 353 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 354 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 355 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 356 -1.617851e-01 1.7032607037 1.74921559 -0.07869442 -0.10740623
## 357 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 358 1.207796e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 359 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 360 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 361 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 362 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 363 -1.617851e-01 2.8344372910 -0.21141009 -0.07869442 -0.10740623

```



```

## 364 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 365 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 366 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 -0.10740623
## 367 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 368 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 369 -1.617851e-01 -0.3430250327 -0.07745430 -0.07869442 -0.10740623
## 370 1.617323e-01 -0.1905068412 -0.21141009 -0.07869442 0.21371309
## 371 -1.617851e-01 0.3687265278 -0.10180990 0.92139856 -0.10740623
## 372 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 373 -1.617851e-01 1.0804780883 0.47054667 -0.07869442 -0.10740623
## 374 -1.617851e-01 -0.3430250327 0.25134628 -0.07869442 -0.10740623
## 375 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 376 5.661290e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 377 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.38126850
## 378 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 379 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 380 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 381 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 382 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 383 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 384 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 385 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 386 1.186204e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 387 -1.617851e-01 0.2670477334 0.96983644 -0.07869442 -0.10740623
## 388 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 389 1.509721e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 390 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 391 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 392 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 393 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 394 -1.617851e-01 0.1907886377 -0.21141009 -0.07869442 -0.10740623
## 395 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 396 -1.617851e-01 1.2838356770 -0.21141009 -0.07869442 -0.10740623
## 397 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 398 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 399 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 400 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 401 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 402 -8.090571e-02 -0.3430250327 -0.10180990 -0.07869442 0.50807247
## 403 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 404 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 405 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 406 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 407 -1.617851e-01 3.3174115642 -0.21141009 -0.07869442 -0.10740623
## 408 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 409 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 410 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 411 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 412 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 413 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 414 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 415 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 416 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 417 -1.617851e-01 0.8644106503 -0.21141009 -0.07869442 -0.10740623

```

```

## 418 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 419 -1.617851e-01 -0.3430250327 7.39971444 -0.07869442 -0.10740623
## 420 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 421 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 422 -1.617851e-01 1.1058977869 -0.21141009 -0.07869442 -0.10740623
## 423 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 424 -1.617851e-01 -0.3430250327 0.60450246 -0.07869442 0.77567190
## 425 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 426 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 427 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 428 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 429 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 430 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 431 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 432 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 433 -1.617851e-01 0.1526590898 0.26352408 -0.07869442 -0.10740623
## 434 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 435 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 436 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 437 -1.617851e-01 -0.3430250327 11.96638916 -0.07869442 -0.10740623
## 438 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 439 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 440 1.590601e+00 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 441 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 442 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 2.14042901
## 443 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 444 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 445 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 446 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 447 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 448 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 449 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 450 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 451 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 452 -1.617851e-01 -0.3430250327 0.77499165 -0.07869442 -0.10740623
## 453 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 454 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 455 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 456 -1.617851e-01 0.8262811024 2.04148277 -0.07869442 -0.10740623
## 457 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 458 -1.617851e-01 -0.1142477454 -0.21141009 -0.07869442 -0.10740623
## 459 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 460 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 461 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 462 -1.617851e-01 -0.3430250327 0.26352408 0.25466991 1.25735088
## 463 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 464 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 465 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 466 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 5.24458243
## 467 -1.617851e-01 -0.1905068412 0.08085709 -0.07869442 -0.10740623
## 468 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 469 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 470 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 471 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 472 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 473 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 474 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 475 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 476 -1.348253e-01 -0.3303151834 0.06867929 -0.07869442 0.29399292
## 477 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 478 4.043703e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 479 -1.617851e-01 4.3596192063 -0.21141009 -0.07869442 -0.10740623
## 480 -1.617851e-01 0.0891098433 -0.11398770 -0.07869442 -0.10740623
## 481 -1.617851e-01 -0.2540560877 -0.21141009 -0.07869442 -0.10740623
## 482 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 483 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 484 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 485 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 486 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 487 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 488 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 489 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 490 -1.617851e-01 1.0423485404 -0.21141009 -0.07869442 -0.10740623
## 491 -1.617851e-01 0.1399492405 -0.21141009 -0.07869442 -0.10740623
## 492 -1.617851e-01 -0.3430250327 3.19837370 -0.07869442 -0.10740623
## 493 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 494 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 495 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 496 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 497 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 498 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 499 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 500 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 501 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 502 -1.617851e-01 -0.3430250327 1.04290323 -0.07869442 -0.10740623
## 503 2.156519e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 504 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 505 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 506 -1.617851e-01 -0.2286363891 0.99419204 -0.07869442 -0.10740623
## 507 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 508 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 509 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 510 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 511 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 512 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 513 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.27422872
## 514 -1.617851e-01 0.1653689391 -0.21141009 -0.07869442 -0.10740623
## 515 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 516 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 517 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 518 -1.617851e-01 0.5593742672 -0.07745430 -0.07869442 -0.10740623
## 519 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 520 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 521 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 522 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 523 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 524 -2.698615e-02 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 525 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 -0.10740623

```

```

## 526 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 527 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 528 -1.617851e-01 -0.3430250327 0.03214590 -0.07869442 -0.10740623
## 529 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 530 8.384466e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 531 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 532 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 533 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 534 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 535 -1.617851e-01 -0.3430250327 10.85820943 -0.07869442 -0.10740623
## 536 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 537 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 538 -1.617851e-01 -0.3430250327 0.32441308 -0.07869442 -0.10740623
## 539 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 540 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 541 -1.617851e-01 2.9106963867 2.90610652 -0.07869442 -0.10740623
## 542 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 543 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 544 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 545 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 546 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 547 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 548 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 0.98975145
## 549 -5.394593e-02 -0.2286363891 -0.21141009 -0.07869442 -0.10740623
## 550 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 551 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 552 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 553 -1.617851e-01 7.6006307765 -0.21141009 -0.07869442 -0.10740623
## 554 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 555 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 556 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 557 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 558 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 559 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 560 9.974855e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 561 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 562 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 563 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 564 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 565 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 0.24047303
## 566 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 567 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 568 1.563641e+00 -0.0252788004 -0.06527650 -0.07869442 -0.10740623
## 569 -1.617851e-01 2.1735251276 3.40539629 -0.07869442 -0.10740623
## 570 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 571 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 572 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 573 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 574 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 575 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 576 -1.617851e-01 -0.1396674440 -0.21141009 -0.07869442 -0.10740623
## 577 -1.617851e-01 0.0001408982 0.11739049 -0.07869442 -0.10740623
## 578 -1.617851e-01 0.6229235137 0.09303489 -0.07869442 -0.10740623
## 579 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 580 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 581 3.747383e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 582 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 583 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 584 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 585 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 586 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 587 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 588 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 589 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 590 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 591 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 592 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 593 -1.617851e-01 -0.3430250327 -0.21141009 4.25504183 -0.10740623
## 594 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 595 -1.617851e-01 1.8557788953 -0.21141009 -0.07869442 -0.10740623
## 596 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 597 -1.617851e-01 0.3941462264 1.20121462 -0.07869442 -0.10740623
## 598 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 599 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.10378697
## 600 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 601 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 602 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 603 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 604 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 605 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 606 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 607 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 608 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 609 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 610 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 611 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 612 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 613 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 614 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 615 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 616 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 617 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 618 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 619 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 620 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 621 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 622 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 623 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 624 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 625 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 626 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 627 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 628 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 629 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 630 -1.617851e-01 -0.3430250327 -0.21141009 6.69971355 -0.10740623
## 631 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 632 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 633 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 634 -1.617851e-01 -0.3430250327 -0.21141009 7.14419932 -0.10740623
## 635 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 636 -1.617851e-01 -0.3430250327 1.38388161 -0.07869442 -0.10740623
## 637 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 638 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 639 -1.617851e-01 -0.3430250327 0.53143567 -0.07869442 -0.10740623
## 640 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 641 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 642 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 643 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 644 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 645 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 646 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 647 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 648 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 649 3.100348e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 650 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 651 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 652 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 653 -1.617851e-01 2.1735251276 3.40539629 -0.07869442 -0.10740623
## 654 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 655 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 656 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 657 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 658 -1.617851e-01 -0.3430250327 0.90894744 -0.07869442 -0.10740623
## 659 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 660 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 12.63032678
## 661 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 662 1.401882e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 663 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 664 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 665 -1.617851e-01 0.9406697460 1.01854764 -0.07869442 -0.10740623
## 666 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 667 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 668 -1.617851e-01 2.8852766881 -0.21141009 -0.07869442 -0.10740623
## 669 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 670 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 671 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 672 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623
## 673 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 674 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 675 -1.617851e-01 -0.3430250327 9.04371734 -0.07869442 -0.10740623
## 676 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 677 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 678 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 679 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 -0.10740623
## 680 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 681 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 682 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 683 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 684 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 685 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 686 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 1.55171026
## 687 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 688 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 689 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 690 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 691 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 692 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 693 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 694 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 695 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 696 -1.617851e-01 -0.1142477454 -0.21141009 -0.07869442 -0.10740623
## 697 -1.617851e-01 -0.3430250327 1.40823721 -0.07869442 -0.10740623
## 698 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 699 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 700 5.391693e-01 -0.3430250327 2.71126173 -0.07869442 -0.10740623
## 701 9.462857e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 702 -1.617851e-01 0.0763999940 -0.21141009 -0.07869442 -0.10740623
## 703 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 704 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 705 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 706 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 707 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 708 -1.617851e-01 -0.3430250327 0.40965767 -0.07869442 -0.10740623
## 709 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 710 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 0.18695315
## 711 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 712 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 713 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 714 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 715 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 -0.10740623
## 716 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 717 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.95310940
## 718 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 719 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 720 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 721 -1.617851e-01 0.4195659250 1.26210362 -0.07869442 -0.10740623
## 722 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 723 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 724 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 725 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 726 -1.617851e-01 -0.3430250327 0.71410265 -0.07869442 -0.10740623
## 727 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 728 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 729 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 730 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 731 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 732 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 733 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 734 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 735 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 736 -1.617851e-01 0.0255605968 0.14174609 -0.07869442 -0.10740623
## 737 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 738 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 739 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 740 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 741 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 742 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 743 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 744 -1.617851e-01 0.6610530616 -0.21141009 -0.07869442 -0.10740623
## 745 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 746 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 747 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 748 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 749 -1.617851e-01 0.8771204996 -0.21141009 -0.07869442 -0.10740623
## 750 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 751 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 752 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 753 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.20383099
## 754 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 755 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 756 1.331811e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 757 1.994997e+00 0.6737629109 0.76281385 -0.07869442 -0.10740623
## 758 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 759 -1.617851e-01 1.2457061291 1.31081482 -0.07869442 -0.10740623
## 760 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 761 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 762 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 763 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 764 1.994997e+00 0.6737629109 -0.21141009 -0.07869442 -0.10740623
## 765 7.009279e-01 0.0636901447 0.56796906 -0.07869442 -0.10740623
## 766 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 767 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 768 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 769 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 770 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 771 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 772 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 773 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 774 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 775 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 776 -1.617851e-01 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 777 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 778 -1.617851e-01 -0.3430250327 -0.21141009 2.03261298 0.40103269
## 779 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 780 7.548475e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 781 3.316027e+00 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 782 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 783 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 784 -1.617851e-01 -0.3430250327 9.15331753 -0.07869442 -0.10740623
## 785 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 786 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 787 -1.617851e-01 1.3219652249 -0.21141009 -0.07869442 -0.10740623
## 788 -1.617851e-01 4.0291631247 -0.21141009 -0.07869442 -0.10740623
## 789 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 -0.10740623
## 790 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 791 -1.617851e-01 5.1730495612 -0.21141009 -0.07869442 -0.10740623
## 792 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.92634946
## 793 -1.617851e-01 0.1907886377 -0.21141009 -0.07869442 -0.10740623
## 794 -1.617851e-01 -0.1650871426 3.52717428 -0.07869442 -0.10740623
## 795 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```



```

## 796 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 797 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 798 7.818073e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 799 -1.617851e-01 1.0804780883 -0.21141009 -0.07869442 -0.10740623
## 800 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 801 -1.617851e-01 -0.0379886497 0.38530207 -0.07869442 -0.10740623
## 802 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 803 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 804 -1.617851e-01 0.8644106503 0.94548084 -0.07869442 -0.10740623
## 805 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 806 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 807 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 808 -1.617851e-01 -0.1396674440 -0.21141009 -0.07869442 -0.10740623
## 809 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 810 -1.617851e-01 0.3051772813 -0.21141009 -0.07869442 -0.10740623
## 811 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 812 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 813 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 814 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 815 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 816 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 817 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 818 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 819 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 820 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 821 -1.617851e-01 0.0128507475 -0.21141009 -0.07869442 -0.10740623
## 822 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 823 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 824 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 825 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 826 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 827 -1.617851e-01 -0.0252788004 -0.21141009 -0.07869442 -0.10740623
## 828 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 829 -1.617851e-01 1.4109341699 3.16184030 -0.07869442 -0.10740623
## 830 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 831 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 832 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 833 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 834 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 835 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 836 -1.617851e-01 0.0001408982 0.11739049 -0.07869442 -0.10740623
## 837 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 838 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 839 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 840 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 841 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 842 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 843 -1.617851e-01 7.6006307765 -0.21141009 -0.07869442 -0.10740623
## 844 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 845 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 846 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 847 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 848 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 849 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 850 -1.617851e-01 1.0296386911 0.66539146 -0.07869442 -0.10740623
## 851 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 852 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 853 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 854 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 855 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 856 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 857 3.585625e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 858 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 859 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 860 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 861 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 862 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 863 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 864 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 865 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 866 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 867 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 868 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 869 -1.617851e-01 1.7286804023 -0.21141009 -0.07869442 -0.10740623
## 870 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 871 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 872 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 873 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 874 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 875 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 876 5.391693e-01 0.3178871306 0.10521269 -0.07869442 -0.10740623
## 877 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.80243184
## 878 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 879 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 880 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 881 -1.617851e-01 0.7500220066 -0.21141009 -0.07869442 -0.10740623
## 882 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 883 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 884 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 885 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 886 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 887 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 888 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 4.41502419
## 889 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 890 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 891 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 892 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 893 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 894 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 895 -1.617851e-01 -0.3430250327 -0.06527650 -0.07869442 -0.10740623
## 896 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 897 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 898 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 899 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 900 -1.617851e-01 0.2034984869 -0.21141009 -0.07869442 -0.10740623
## 901 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 902 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 903 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623

```

```

## 904 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 905 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 906 -1.617851e-01 0.9533795953 -0.21141009 -0.07869442 -0.10740623
## 907 -1.617851e-01 1.6397114573 -0.21141009 -0.07869442 -0.10740623
## 908 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 909 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 910 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 911 -1.617851e-01 2.4150122642 2.43117235 -0.07869442 -0.10740623
## 912 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 913 -1.617851e-01 4.1943911655 -0.21141009 -0.07869442 -0.10740623
## 914 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 915 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 916 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 917 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 918 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 919 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 920 -1.617851e-01 0.5847939658 -0.21141009 -0.07869442 -0.10740623
## 921 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 922 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 923 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 924 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 925 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 926 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 927 8.896464e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 928 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 0.05315343
## 929 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.92634946
## 930 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 931 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 932 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 933 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.53483241
## 934 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 935 -1.617851e-01 -0.3430250327 -0.21141009 3.69943462 -0.10740623
## 936 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 937 6.739682e-01 0.0509802954 0.16610169 -0.07869442 -0.10740623
## 938 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 939 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 940 4.016981e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 941 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 942 -1.617851e-01 -0.3430250327 3.97775285 -0.07869442 -0.10740623
## 943 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 944 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 945 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 946 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 947 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 948 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 949 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 950 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 951 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 952 -1.617851e-01 -0.3430250327 3.30797389 -0.07869442 -0.10740623
## 953 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 954 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 955 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 956 1.779319e+00 -0.3430250327 -0.21141009 7.92204942 -0.10740623
## 957 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 958 8.357269e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 959 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 960 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 961 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 962 -1.617851e-01 1.0042189925 -0.21141009 -0.07869442 -0.10740623
## 963 -1.617851e-01 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 964 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 965 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 966 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 967 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 968 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 969 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 970 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 971 -1.617851e-01 2.3514630178 -0.21141009 -0.07869442 -0.10740623
## 972 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 973 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 974 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 975 6.739682e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 976 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 977 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.33763071
## 978 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 979 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 980 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 981 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 982 -1.617851e-01 0.9660894446 -0.21141009 -0.07869442 -0.10740623
## 983 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 984 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 985 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 986 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 987 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 988 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 989 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 990 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 991 1.779319e+00 -0.3430250327 -0.21141009 7.92204942 -0.10740623
## 992 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 993 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 994 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 995 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 996 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 997 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 998 -1.617851e-01 4.3596192063 -0.21141009 -0.07869442 -0.10740623
## 999 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1000 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1001 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1002 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1003 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1004 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1005 -1.617851e-01 8.7318073637 -0.21141009 -0.07869442 -0.10740623
## 1006 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1007 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1008 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1009 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 1010 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1011 -1.617851e-01 -0.3430250327 5.93837853 -0.07869442 -0.10740623

```

```

## 1012 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1013 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1014 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1015 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1016 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1017 -1.617851e-01 -0.3430250327 5.06157699 -0.07869442 -0.10740623
## 1018 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 1019 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1020 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 1021 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1022 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 1023 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1024 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1025 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1026 -1.617851e-01 -0.3430250327 0.70192485 -0.07869442 -0.10740623
## 1027 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 1028 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1029 -1.617851e-01 1.0296386911 0.66539146 -0.07869442 -0.10740623
## 1030 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1031 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1032 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1033 -1.617851e-01 -0.3430250327 1.60308200 -0.07869442 -0.10740623
## 1034 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1035 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1036 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 1037 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 1038 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1039 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 1040 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1041 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1042 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1043 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1044 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1045 -1.617851e-01 -0.3430250327 -0.21141009 6.69971355 -0.10740623
## 1046 -1.617851e-01 -0.3430250327 1.71268219 -0.07869442 -0.10740623
## 1047 -1.617851e-01 -0.3430250327 -0.06527650 1.25476289 -0.10740623
## 1048 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1049 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1050 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1051 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 1052 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1053 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1054 -1.617851e-01 -0.3430250327 1.09161443 -0.07869442 -0.10740623
## 1055 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1056 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1057 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 1058 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1059 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1060 -1.617851e-01 -0.3430250327 1.11597003 -0.07869442 -0.10740623
## 1061 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1062 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1063 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1064 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1065 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623

```

```

## 1066 -1.617851e-01 0.3433068292 0.11739049 -0.07869442 -0.10740623
## 1067 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1068 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1069 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 1070 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1071 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 1072 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1073 -1.617851e-01 1.7286804023 -0.21141009 -0.07869442 -0.10740623
## 1074 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1075 2.237635e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1076 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1077 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 1078 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1079 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1080 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1081 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1082 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1083 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 1084 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1085 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1086 -1.617851e-01 -0.1269575947 -0.21141009 -0.07869442 -0.10740623
## 1087 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1088 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1089 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 -0.10740623
## 1090 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1091 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1092 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1093 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1094 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1095 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1096 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1097 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1098 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1099 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1100 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 1101 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1102 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1103 -1.617851e-01 3.5080593036 -0.21141009 -0.07869442 -0.10740623
## 1104 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1105 -1.617851e-01 -0.2921856355 -0.21141009 -0.07869442 -0.10740623
## 1106 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1107 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1108 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 1109 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1110 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 1111 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 1112 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1113 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1114 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1115 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1116 9.166062e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1117 -1.617851e-01 0.4958250207 2.19979416 -0.07869442 -0.10740623
## 1118 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1119 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1120 -1.617851e-01 0.7246023080 0.81152505 -0.07869442 -0.10740623
## 1121 -1.617851e-01 -0.3430250327 0.49490227 -0.07869442 -0.10740623
## 1122 -1.617851e-01 0.6610530616 -0.21141009 -0.07869442 -0.10740623
## 1123 -1.617851e-01 -0.3430250327 0.54361346 -0.07869442 4.86994322
## 1124 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 1125 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1126 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1127 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1128 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1129 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1130 -1.617851e-01 -0.3430250327 0.42183547 -0.07869442 -0.10740623
## 1131 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1132 -1.617851e-01 0.8517008010 0.93330304 -0.07869442 -0.10740623
## 1133 -1.617851e-01 -0.3430250327 6.94913587 -0.07869442 -0.10740623
## 1134 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1135 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1136 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1137 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1138 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1139 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1140 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1141 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1142 -1.617851e-01 1.4744834164 -0.21141009 -0.07869442 -0.10740623
## 1143 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1144 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1145 -1.617851e-01 1.0423485404 -0.21141009 -0.07869442 -0.10740623
## 1146 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1147 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1148 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1149 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1150 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.33763071
## 1151 -1.617851e-01 -0.3430250327 0.19045729 -0.07869442 -0.10740623
## 1152 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1153 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1154 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 -0.10740623
## 1155 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1156 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1157 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1158 -1.617851e-01 -0.3430250327 -0.02874310 -0.07869442 -0.10740623
## 1159 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1160 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1161 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1162 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1163 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1164 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 1165 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1166 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1167 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1168 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1169 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1170 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1171 -1.617851e-01 0.3178871306 -0.21141009 -0.07869442 -0.10740623
## 1172 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1173 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623

```

```

## 1174 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1175 -1.617851e-01 -0.3430250327 -0.04092090 1.47700577 -0.10740623
## 1176 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1177 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1178 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1179 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1180 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1181 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1182 -1.617851e-01 -0.3430250327 4.13606424 -0.07869442 -0.10740623
## 1183 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1184 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1185 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1186 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1187 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1188 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 1189 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1190 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1191 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1192 -1.617851e-01 3.3936706599 -0.21141009 -0.07869442 -0.10740623
## 1193 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1194 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 1195 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 1196 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1197 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1198 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1199 1.186204e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1200 -1.617851e-01 -0.3430250327 0.34876868 -0.07869442 -0.10740623
## 1201 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1202 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1203 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1204 -1.617851e-01 -0.3430250327 0.38530207 -0.07869442 -0.10740623
## 1205 -1.617851e-01 -0.0125689511 -0.11398770 -0.07869442 -0.10740623
## 1206 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1207 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1208 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1209 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1210 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1211 -1.617851e-01 -0.3430250327 0.71410265 -0.07869442 -0.10740623
## 1212 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1213 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1214 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1215 -1.617851e-01 0.8771204996 -0.21141009 -0.07869442 -0.10740623
## 1216 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1217 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1218 -1.617851e-01 1.2965455263 2.93046212 -0.07869442 -0.10740623
## 1219 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1220 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 -0.10740623
## 1221 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1222 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1223 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1224 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1225 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1226 -1.617851e-01 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 1227 -1.617851e-01 2.4150122642 2.43117235 -0.07869442 -0.10740623

```



```

## 1228 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1229 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1230 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1231 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1232 -1.617851e-01 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 1233 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1234 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 1235 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1236 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 1237 -1.617851e-01 0.6229235137 1.63961540 -0.07869442 -0.10740623
## 1238 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 1239 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.07003128
## 1240 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1241 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1242 -1.617851e-01 -0.3430250327 -0.06527650 -0.07869442 -0.10740623
## 1243 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 1244 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1245 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1246 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1247 -1.617851e-01 0.4068560757 -0.21141009 -0.07869442 -0.10740623
## 1248 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1249 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1250 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1251 -1.617851e-01 1.7032607037 -0.21141009 -0.07869442 -0.10740623
## 1252 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1253 -1.617851e-01 0.0636901447 2.15108297 -0.07869442 -0.10740623
## 1254 -1.617851e-01 -0.3430250327 0.40965767 -0.07869442 -0.10740623
## 1255 -1.617851e-01 -0.2540560877 -0.21141009 -0.07869442 -0.10740623
## 1256 -1.617851e-01 -0.3430250327 10.85820943 -0.07869442 -0.10740623
## 1257 -1.617851e-01 -0.3430250327 0.22699068 -0.07869442 -0.10740623
## 1258 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1259 -1.617851e-01 -0.0506984989 1.49348181 -0.07869442 -0.10740623
## 1260 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1261 -1.617851e-01 -0.3430250327 1.16468123 -0.07869442 -0.10740623
## 1262 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1263 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1264 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1265 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1266 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1267 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 1268 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1269 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1270 -1.617851e-01 0.5212447193 0.61668026 -0.07869442 -0.10740623
## 1271 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1272 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1273 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1274 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1275 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1276 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1277 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 8.80365489
## 1278 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 1279 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1280 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1281 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1282 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1283 -1.617851e-01 0.1272393912 -0.21141009 -0.07869442 -0.10740623
## 1284 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1285 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 1286 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1287 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 1288 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1289 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 1290 -1.617851e-01 0.8644106503 2.49206134 -0.07869442 -0.10740623
## 1291 -1.617851e-01 -0.3430250327 0.19045729 -0.07869442 -0.10740623
## 1292 -1.617851e-01 -0.3430250327 0.58014686 -0.07869442 -0.10740623
## 1293 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1294 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1295 -1.617851e-01 -0.0379886497 0.38530207 -0.07869442 -0.10740623
## 1296 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1297 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1298 -1.617851e-01 0.9279598967 0.39747987 -0.07869442 -0.10740623
## 1299 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1300 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1301 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1302 -1.617851e-01 0.9660894446 -0.21141009 -0.07869442 -0.10740623
## 1303 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 1304 -1.617851e-01 0.9279598967 -0.21141009 -0.07869442 -0.10740623
## 1305 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 1306 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1307 1.401882e+00 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 1308 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1309 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1310 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1311 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1312 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1313 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1314 2.695714e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1315 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1316 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1317 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1318 2.237635e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1319 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1320 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1321 -1.617851e-01 -0.3430250327 -0.21141009 2.03261298 0.40103269
## 1322 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1323 9.435660e-01 -0.3430250327 -0.21141009 -0.07869442 0.98975145
## 1324 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1325 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1326 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1327 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1328 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1329 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 1330 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1331 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1332 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1333 -1.617851e-01 -0.3430250327 2.32157215 -0.07869442 -0.10740623
## 1334 -1.617851e-01 1.3728046221 -0.21141009 -0.07869442 -0.10740623
## 1335 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1336 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1337 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1338 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1339 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1340 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1341 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1342 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1343 -1.617851e-01 0.0763999940 0.19045729 -0.07869442 -0.10740623
## 1344 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 1345 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1346 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 1347 -1.617851e-01 2.3514630178 1.07943663 -0.07869442 -0.10740623
## 1348 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1349 -1.617851e-01 -0.3430250327 0.49490227 -0.07869442 -0.10740623
## 1350 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 1351 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1352 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1353 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1354 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1355 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 1356 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.27422872
## 1357 2.426117e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1358 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1359 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1360 -1.617851e-01 -0.0506984989 1.49348181 -0.07869442 -0.10740623
## 1361 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1362 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1363 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1364 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1365 1.240124e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1366 -1.617851e-01 0.7500220066 -0.21141009 -0.07869442 -0.10740623
## 1367 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1368 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1369 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 1370 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1371 1.455802e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1372 -1.617851e-01 -0.3430250327 -0.21141009 4.25504183 -0.10740623
## 1373 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1374 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1375 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1376 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 1377 1.321003e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1378 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.69250572
## 1379 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.20383099
## 1380 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1381 2.695714e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1382 -1.617851e-01 8.1217345976 -0.21141009 -0.07869442 -0.10740623
## 1383 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1384 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1385 -1.617851e-01 -0.1905068412 -0.21141009 -0.07869442 -0.10740623
## 1386 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 1387 1.941078e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1388 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1389 6.200486e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1390 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1391 1.941078e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1392 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1393 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1394 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1395 1.215884e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1396 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1397 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1398 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 1399 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1400 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1401 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1402 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1403 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1404 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1405 -1.617851e-01 1.2457061291 2.06583837 -0.07869442 -0.10740623
## 1406 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1407 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1408 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1409 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1410 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 1411 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1412 -1.617851e-01 -0.3430250327 0.06867929 -0.07869442 -0.10740623
## 1413 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 1414 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1415 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1416 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1417 -1.617851e-01 -0.3430250327 8.48353858 -0.07869442 -0.10740623
## 1418 -1.617851e-01 0.9915091432 -0.21141009 -0.07869442 -0.10740623
## 1419 -1.617851e-01 1.3600947728 -0.21141009 -0.07869442 -0.10740623
## 1420 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1421 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 1422 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1423 -2.698615e-02 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1424 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 1425 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1426 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1427 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1428 1.267107e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1429 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 0.16019320
## 1430 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 1431 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1432 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1433 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1434 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1435 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1436 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1437 -1.617851e-01 -0.0125689511 -0.11398770 -0.07869442 -0.10740623
## 1438 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1439 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1440 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1441 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1442 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1443 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1444 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1445 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 0.24047303
## 1446 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 1447 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1448 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1449 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1450 -1.617851e-01 -0.3430250327 -0.21141009 11.25569268 -0.10740623
## 1451 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.84606963
## 1452 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 1453 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 1454 -1.617851e-01 2.5675304558 -0.21141009 -0.07869442 -0.10740623
## 1455 -1.617851e-01 3.3301214135 1.54219300 -0.07869442 -0.10740623
## 1456 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1457 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1458 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 0.29399292
## 1459 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 1460 4.016981e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1461 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.26723298
## 1462 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1463 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1464 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1465 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1466 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 1467 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1468 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1469 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1470 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1471 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 1472 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1473 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1474 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1475 -1.617851e-01 0.2543378841 -0.21141009 -0.07869442 -0.10740623
## 1476 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1477 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1478 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1479 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1480 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 1481 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1482 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1483 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1484 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1485 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 1486 -1.617851e-01 -0.2794757863 -0.21141009 0.14354847 -0.10740623
## 1487 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1488 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1489 4.043703e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 1490 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 1491 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 1492 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1493 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1494 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 1495 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1496 -1.617851e-01 2.2243645248 1.01854764 -0.07869442 -0.10740623
## 1497 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1498 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1499 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 1500 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.29110657
## 1501 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1502 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1503 -1.617851e-01 0.8135712531 -0.21141009 -0.07869442 2.32774861
## 1504 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1505 -1.617851e-01 0.4576954728 2.11454957 -0.07869442 -0.10740623
## 1506 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1507 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1508 -1.617851e-01 2.2497842234 -0.21141009 -0.07869442 -0.10740623
## 1509 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1510 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1511 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 1512 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1513 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1514 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1515 -1.617851e-01 2.1226857305 2.15108297 -0.07869442 -0.10740623
## 1516 -1.617851e-01 0.7373121573 -0.21141009 -0.07869442 -0.10740623
## 1517 -1.617851e-01 1.0677682390 -0.21141009 -0.07869442 -0.10740623
## 1518 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1519 -1.617851e-01 1.1058977869 -0.21141009 -0.07869442 -0.10740623
## 1520 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1521 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1522 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1523 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1524 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1525 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 -0.10740623
## 1526 -1.617851e-01 1.8430690460 1.88317138 -0.07869442 -0.10740623
## 1527 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1528 -1.617851e-01 0.8389909517 -0.21141009 -0.07869442 -0.10740623
## 1529 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1530 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1531 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1532 -1.617851e-01 0.2162083362 0.32441308 -0.07869442 -0.10740623
## 1533 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1534 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1535 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1536 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1537 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1538 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1539 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1540 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1541 1.213164e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1542 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1543 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1544 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1545 -1.617851e-01 0.6102136644 -0.21141009 -0.07869442 -0.10740623
## 1546 -1.617851e-01 1.5507425122 -0.21141009 -0.07869442 -0.10740623
## 1547 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1548 -1.617851e-01 0.0763999940 -0.21141009 -0.07869442 -0.10740623
## 1549 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1550 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1551 -1.617851e-01 -0.3430250327 0.48272447 -0.07869442 -0.10740623

```

```

## 1552 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1553 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 13.27256541
## 1554 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1555 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1556 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1557 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1558 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1559 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1560 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 1561 -1.617851e-01 -0.3430250327 1.16468123 -0.07869442 -0.10740623
## 1562 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1563 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1564 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1565 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1566 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1567 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 -0.10740623
## 1568 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1569 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1570 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1571 7.278877e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1572 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1573 -2.698615e-02 -0.0506984989 -0.18705449 -0.07869442 -0.10740623
## 1574 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1575 -1.617851e-01 0.7881515545 -0.21141009 -0.07869442 -0.10740623
## 1576 -1.617851e-01 1.0931879376 -0.21141009 -0.07869442 -0.10740623
## 1577 2.156519e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1578 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1579 -1.617851e-01 -0.3430250327 3.19837370 -0.07869442 -0.10740623
## 1580 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1581 1.078128e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623
## 1582 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1583 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1584 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 6.74313925
## 1585 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1586 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1587 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1588 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1589 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1590 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1591 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1592 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1593 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1594 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1595 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1596 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1597 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1598 -1.617851e-01 0.5593742672 0.65321366 -0.07869442 -0.10740623
## 1599 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1600 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 1601 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1602 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1603 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1604 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1605 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623

```

```

## 1606 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1607 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1608 -1.617851e-01 0.5847939658 -0.21141009 -0.07869442 -0.10740623
## 1609 8.249667e+00 3.6224479472 -0.21141009 -0.07869442 -0.10740623
## 1610 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1611 -1.617851e-01 10.2442794298 -0.21141009 -0.07869442 -0.10740623
## 1612 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1613 -1.617851e-01 -0.3430250327 0.26352408 -0.07869442 -0.10740623
## 1614 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1615 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1616 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1617 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1618 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1619 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 7.41213783
## 1620 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1621 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1622 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 6.39525999
## 1623 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1624 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1625 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1626 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.53483241
## 1627 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1628 3.909142e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1629 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1630 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.66863213
## 1631 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1632 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1633 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1634 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 1635 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 1636 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1637 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.99674719
## 1638 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1639 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1640 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1641 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1642 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1643 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1644 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1645 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1646 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 1647 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1648 -1.617851e-01 -0.3430250327 3.30797389 -0.07869442 -0.10740623
## 1649 -1.617851e-01 0.1653689391 0.27570188 -0.07869442 -0.10740623
## 1650 -1.617851e-01 0.6737629109 -0.21141009 -0.07869442 -0.10740623
## 1651 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1652 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1653 -1.617851e-01 0.9406697460 -0.21141009 -0.07869442 -0.10740623
## 1654 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1655 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1656 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1657 -1.617851e-01 3.2792820163 -0.21141009 -0.07869442 -0.10740623
## 1658 -1.617851e-01 0.6229235137 0.09303489 -0.07869442 -0.10740623
## 1659 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623

```



```

## 1660 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 1661 -1.617851e-01 1.6015819094 3.52717428 -0.07869442 -0.10740623
## 1662 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1663 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1664 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1665 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1666 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1667 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1668 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1669 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1670 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1671 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1672 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1673 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1674 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 1675 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1676 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1677 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 1678 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1679 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1680 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1681 -1.617851e-01 0.6102136644 -0.21141009 -0.07869442 -0.10740623
## 1682 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1683 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1684 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1685 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1686 -1.617851e-01 0.2289181855 0.33659088 -0.07869442 -0.10740623
## 1687 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1688 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1689 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1690 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 1691 -1.617851e-01 -0.3430250327 0.70192485 -0.07869442 -0.10740623
## 1692 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 1693 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1694 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1695 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1696 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1697 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1698 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1699 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1700 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1701 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1702 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1703 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1704 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1705 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1706 -1.617851e-01 0.5085348700 -0.21141009 -0.07869442 -0.10740623
## 1707 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1708 1.347725e-01 -0.2794757863 -0.21141009 -0.07869442 0.02639349
## 1709 -1.617851e-01 -0.3430250327 0.83588065 -0.07869442 -0.10740623
## 1710 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1711 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1712 -1.617851e-01 0.1526590898 -0.21141009 -0.07869442 0.93623156
## 1713 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1714 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1715 -1.617851e-01 -0.3430250327 1.68832659 -0.07869442 -0.10740623
## 1716 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1717 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 1718 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1719 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1720 -1.617851e-01 2.9106963867 -0.21141009 -0.07869442 -0.10740623
## 1721 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1722 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1723 -1.617851e-01 0.2924674320 -0.21141009 -0.07869442 -0.10740623
## 1724 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
##          V49          V50          V51          V52          V53
## 1  -0.155784145 2.1163728981 -0.14922208 -0.078298941 -0.333527479
## 2   0.874277910 0.8333622543 0.89455543 -0.247420916 -0.006561355
## 3  -0.028728033 -0.2224485881 -0.14922208 -0.311848335 -0.333527479
## 4  -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 5  -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 6  -0.155784145 -0.1511702190 -0.14922208 -0.311848335 -0.333527479
## 7  -0.155784145 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 8  -0.155784145 0.4279665300 -0.14922208 -0.046085231 -0.333527479
## 9  -0.155784145 -0.6011149240 -0.14922208 0.937583402 -0.333527479
## 10 -0.155784145 0.0270257038 -0.14922208 0.093124014 -0.089392773
## 11 -0.155784145 -0.6011149240 -0.14922208 2.275602842 5.059233804
## 12 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 13  0.175469291 0.3388685686 0.22025669 -0.311848335 -0.263774706
## 14 -0.155784145 0.4858802049 -0.14922208 -0.311848335 -0.333527479
## 15  0.552099910 -0.6011149240 -0.14922208 0.679873725 -0.333527479
## 16 -0.155784145 -0.6011149240 -0.14922208 0.492343916 -0.333527479
## 17  0.955956839 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 18 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 19 14.501045975 -0.6011149240 -0.14922208 -0.256624833 -0.333527479
## 20 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 21 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 22 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 23 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.333527479
## 24 -0.155784145 1.3100363476 0.12788700 -0.311848335 -0.333527479
## 25 -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 26  0.347902586 0.0715746845 -0.05685239 -0.311848335 -0.246336513
## 27 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 28 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 29 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 30 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 31 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 32 -0.155784145 0.0270257038 -0.14922208 0.340479285 -0.333527479
## 33 -0.155784145 0.7086251083 -0.14922208 0.279503334 -0.333527479
## 34 -0.155784145 0.6418016373 -0.14922208 -0.151930277 -0.333527479
## 35 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 36 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 37  1.632076866 -0.1645349132 2.57568380 -0.311848335 -0.333527479
## 38 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 39 -0.155784145 0.2141314227 -0.14922208 0.179410736 -0.067595031
## 40 -0.155784145 -0.2224485881 0.10941306 -0.206003290 -0.272493803
## 41 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 42 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

|       |              |               |             |              |              |
|-------|--------------|---------------|-------------|--------------|--------------|
| ## 43 | -0.155784145 | 2.8514310795  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 44 | -0.155784145 | 0.0181159076  | -0.14922208 | 0.331275368  | -0.333527479 |
| ## 45 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.683325194  | -0.233257868 |
| ## 46 | -0.155784145 | 0.3611430589  | 0.84837058  | -0.063342575 | -0.333527479 |
| ## 47 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 48 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 49 | -0.155784145 | 1.0605620558  | -0.14922208 | -0.169187621 | 0.207056513  |
| ## 50 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 51 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 52 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 53 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.358887119  | -0.333527479 |
| ## 54 | -0.155784145 | 0.5304291856  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 55 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 56 | -0.155784145 | -0.2981818553 | -0.14922208 | 0.240386687  | 2.059864553  |
| ## 57 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.783417792  | -0.333527479 |
| ## 58 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 59 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 60 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 61 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 62 | -0.155784145 | 0.3611430589  | -0.14922208 | -0.063342575 | -0.333527479 |
| ## 63 | 0.801674417  | -0.6011149240 | -0.14922208 | -0.069095024 | -0.333527479 |
| ## 64 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 65 | -0.155784145 | 4.3482768307  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 66 | -0.155784145 | 0.0626648883  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 67 | -0.155784145 | 0.3566881609  | -0.14922208 | -0.188745945 | -0.333527479 |
| ## 68 | -0.155784145 | -0.4852875742 | 3.01905832  | -0.311848335 | -0.333527479 |
| ## 69 | -0.155784145 | -0.2001740977 | -0.14922208 | 0.311717044  | -0.333527479 |
| ## 70 | -0.155784145 | -0.6011149240 | 1.78130446  | -0.311848335 | -0.333527479 |
| ## 71 | 0.661005149  | 0.6017075547  | 0.26644153  | -0.311848335 | -0.333527479 |
| ## 72 | -0.155784145 | 0.3210489763  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 73 | -0.155784145 | -0.3828249186 | -0.14922208 | -0.027677397 | -0.119909611 |
| ## 74 | -0.155784145 | -0.6011149240 | -0.14922208 | 6.079121558  | -0.333527479 |
| ## 75 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 76 | -0.110406962 | -0.3694602244 | -0.14922208 | -0.300343439 | 0.394517092  |
| ## 77 | 0.497647291  | 0.2542255053  | 0.73752696  | -0.311848335 | -0.333527479 |
| ## 78 | -0.155784145 | -0.2714524669 | 2.59415774  | -0.311848335 | -0.333527479 |
| ## 79 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.827136398  | -0.333527479 |
| ## 80 | -0.155784145 | -0.2536328746 | -0.14922208 | 0.185163185  | 1.549797399  |
| ## 81 | 0.093790361  | -0.1110761364 | -0.14922208 | -0.248571406 | -0.333527479 |
| ## 82 | -0.155784145 | 0.9892836867  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 83 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.581977670  |
| ## 84 | -0.069567497 | 0.0092061115  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 85 | -0.155784145 | -0.3026367533 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 86 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 87 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 88 | -0.155784145 | -0.1378055248 | 0.33110032  | -0.311848335 | -0.333527479 |
| ## 89 | -0.105869244 | -0.3917347147 | -0.14922208 | -0.311848335 | -0.233257868 |
| ## 90 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 91 | -0.155784145 | 0.2854097918  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 92 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 93 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 94 | -0.155784145 | -0.6011149240 | 0.83913362  | -0.311848335 | -0.333527479 |
| ## 95 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 96 | -0.155784145 | -0.0620722576 | -0.14922208 | 0.075866670  | -0.098111870 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 97  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 98  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 99  | -0.155784145 | -0.1689898113 | -0.14922208 | 0.330124878  | -0.228898320 |
| ## 100 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.006837292  | -0.333527479 |
| ## 101 | -0.155784145 | -0.4674679819 | -0.14922208 | -0.136973912 | -0.333527479 |
| ## 102 | -0.155784145 | 0.3076842821  | -0.14922208 | 0.393401808  | 0.664809088  |
| ## 103 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.047235721 | 0.669168636  |
| ## 104 | -0.155784145 | 1.9114475870  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 105 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.006837292  | -0.333527479 |
| ## 106 | -0.155784145 | -0.1021663402 | -0.14922208 | 0.891563817  | -0.172224191 |
| ## 107 | -0.155784145 | -0.0798918499 | -0.14922208 | -0.311848335 | -0.146066901 |
| ## 108 | -0.155784145 | -0.1422604228 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 109 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.472785592  | 1.153078501  |
| ## 110 | -0.155784145 | 0.1072138690  | -0.14922208 | 0.239236197  | -0.333527479 |
| ## 111 | 16.506717465 | -0.6011149240 | -0.14922208 | -0.242818958 | -0.333527479 |
| ## 112 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.225430322  | -0.333527479 |
| ## 113 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 114 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 115 | -0.155784145 | -0.6011149240 | 0.54355061  | -0.009269563 | -0.006561355 |
| ## 116 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.242818958 | -0.333527479 |
| ## 117 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.363489077  | -0.333527479 |
| ## 118 | -0.155784145 | -0.3739151224 | -0.14922208 | -0.073696982 | 0.568899025  |
| ## 119 | -0.155784145 | 1.9114475870  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 120 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 13.878600075 |
| ## 121 | -0.155784145 | 1.3055814496  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 122 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.565975252  | -0.333527479 |
| ## 123 | 0.388742051  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 124 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 125 | -0.155784145 | 1.0293777693  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 126 | -0.155784145 | 0.2007667285  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 127 | -0.155784145 | -0.3471857340 | -0.14922208 | -0.246270427 | 0.411955285  |
| ## 128 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 129 | -0.155784145 | -0.6011149240 | 2.73271228  | -0.311848335 | -0.333527479 |
| ## 130 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 131 | -0.155784145 | -0.2714524669 | -0.14922208 | 0.162153392  | 1.462606432  |
| ## 132 | -0.155784145 | -0.2135387920 | -0.14922208 | -0.211755738 | -0.333527479 |
| ## 133 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 134 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 135 | 0.062026333  | 0.9090955214  | -0.14922208 | -0.256624833 | -0.333527479 |
| ## 136 | 3.324645794  | -0.4362836954 | -0.14922208 | 6.407011102  | 5.381840380  |
| ## 137 | -0.155784145 | -0.1823545055 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 138 | -0.155784145 | 0.4769704087  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 139 | -0.155784145 | 0.1740373401  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 140 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 141 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.049180897  | 0.769438248  |
| ## 142 | 0.375128896  | -0.0798918499 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 143 | -0.055954343 | -0.5031071664 | 0.02628034  | -0.286537564 | -0.237617416 |
| ## 144 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.116265098 | 0.407595737  |
| ## 145 | -0.155784145 | -0.3293661417 | -0.14922208 | -0.303794908 | 0.098067805  |
| ## 146 | -0.155784145 | -0.1823545055 | 0.28491547  | -0.203702310 | -0.333527479 |
| ## 147 | 0.438656953  | 0.3299587725  | -0.14922208 | -0.311848335 | -0.163505095 |
| ## 148 | -0.087718371 | 0.0092061115  | -0.14922208 | -0.241668468 | -0.333527479 |
| ## 149 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.165380349  | -0.333527479 |
| ## 150 | -0.087718371 | -0.3917347147 | 0.13712397  | -0.020774459 | -0.198381481 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 151 | -0.069567497 | -0.3694602244 | 0.45118091  | 0.163303882  | 0.381438447  |
| ## 152 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.076270063  |
| ## 153 | -0.155784145 | 0.9135504195  | -0.14922208 | -0.116265098 | -0.333527479 |
| ## 154 | -0.155784145 | -0.3204563456 | -0.14922208 | -0.268129730 | -0.333527479 |
| ## 155 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 156 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.161002902  | -0.333527479 |
| ## 157 | -0.155784145 | 0.0359354999  | 0.28491547  | -0.092104816 | 0.289887932  |
| ## 158 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.658014422  | -0.333527479 |
| ## 159 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.231182770  | 0.224494707  |
| ## 160 | -0.155784145 | 0.0893942767  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 161 | -0.155784145 | -0.5342914529 | -0.14922208 | -0.203702310 | -0.268134255 |
| ## 162 | 1.455105853  | 0.9803738905  | -0.14922208 | 0.506149791  | -0.333527479 |
| ## 163 | -0.033265751 | -0.4808326761 | -0.14922208 | 0.192066122  | 0.499146251  |
| ## 164 | -0.155784145 | -0.0977114422 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 165 | -0.155784145 | -0.0709820537 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 166 | -0.001501723 | -0.2447230784 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 167 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.242463154  | -0.333527479 |
| ## 168 | -0.155784145 | 1.1407502210  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 169 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 170 | -0.155784145 | 0.7041702103  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 171 | 0.334289432  | 0.3611430589  | 0.41423304  | -0.258925812 | -0.202741030 |
| ## 172 | -0.155784145 | 0.9580994002  | -0.14922208 | -0.311848335 | 1.192314436  |
| ## 173 | 0.742684079  | 1.7555261545  | 2.89897772  | -0.084051389 | -0.333527479 |
| ## 174 | -0.069567497 | 1.0338326674  | -0.14922208 | -0.089803837 | -0.333527479 |
| ## 175 | -0.155784145 | 1.3813147168  | -0.14922208 | -0.079449430 | 0.193977868  |
| ## 176 | 0.334289432  | -0.1199859325 | -0.14922208 | -0.311848335 | 0.137303740  |
| ## 177 | -0.155784145 | 1.0917463423  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 178 | -0.155784145 | 0.7264447006  | 0.39575910  | -0.243969447 | -0.333527479 |
| ## 179 | -0.155784145 | 0.0626648883  | -0.14922208 | 0.949088299  | -0.333527479 |
| ## 180 | -0.155784145 | 0.4235116319  | -0.14922208 | 0.540664480  | 1.000494309  |
| ## 181 | -0.155784145 | 0.2007667285  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 182 | -0.155784145 | -0.1021663402 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 183 | -0.155784145 | 0.4279665300  | -0.14922208 | 0.545266439  | 1.009213406  |
| ## 184 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 185 | -0.155784145 | -0.5120169626 | -0.14922208 | 0.093124014  | -0.246336513 |
| ## 186 | 1.731906669  | 1.2521226728  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 187 | -0.155784145 | 1.0338326674  | 0.69134211  | -0.311848335 | -0.333527479 |
| ## 188 | -0.155784145 | 0.8066328658  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 189 | -0.074105216 | 0.1562177478  | -0.14922208 | -0.006968584 | 0.241932900  |
| ## 190 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 191 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 192 | -0.155784145 | 0.0225708057  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 193 | 1.073937515  | 2.7534233220  | 0.95921421  | -0.311848335 | -0.333527479 |
| ## 194 | 1.042173487  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 195 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 196 | -0.155784145 | 0.4636057145  | 0.58049848  | -0.128920484 | -0.333527479 |
| ## 197 | -0.155784145 | 4.0631633543  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 198 | -0.155784145 | -0.2358132823 | -0.14922208 | -0.288838543 | -0.333527479 |
| ## 199 | -0.155784145 | 0.1205785632  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 200 | -0.155784145 | -0.3650053263 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 201 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 202 | -0.155784145 | 0.4146018358  | -0.14922208 | -0.260076302 | -0.333527479 |
| ## 203 | -0.155784145 | 0.1606726458  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 204 | 0.851589318  | -0.6011149240 | -0.14922208 | 0.198969060  | 1.279505402  |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 205 | -0.024190314 | 0.0537550922  | 0.11865003  | -0.177241049 | -0.080673676 |
| ## 206 | -0.155784145 | -0.1556251171 | -0.14922208 | -0.196799372 | -0.333527479 |
| ## 207 | -0.155784145 | 2.4816745398  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 208 | -0.110406962 | -0.3694602244 | -0.14922208 | -0.300343439 | 0.394517092  |
| ## 209 | -0.155784145 | -0.2179936900 | -0.14922208 | 1.374769462  | 0.791235990  |
| ## 210 | -0.155784145 | -0.3516406321 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 211 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.559072314  | -0.333527479 |
| ## 212 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 213 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.247289625  | -0.333527479 |
| ## 214 | -0.155784145 | -0.2224485881 | 0.10941306  | -0.197949862 | -0.272493803 |
| ## 215 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.072546492 | -0.333527479 |
| ## 216 | -0.155784145 | 0.4947900010  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 217 | -0.155784145 | 0.4680606126  | -0.14922208 | -0.035730824 | -0.333527479 |
| ## 218 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 219 | -0.155784145 | 0.5794330643  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 220 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.256624833 | -0.124269160 |
| ## 221 | -0.155784145 | 1.4793224743  | -0.14922208 | 0.010288761  | 0.477348510  |
| ## 222 | -0.155784145 | 0.1695824420  | -0.14922208 | 0.220828363  | -0.333527479 |
| ## 223 | -0.155784145 | -0.3650053263 | -0.14922208 | 0.913423120  | -0.333527479 |
| ## 224 | -0.155784145 | -0.1333506267 | -0.14922208 | -0.311848335 | 0.350921608  |
| ## 225 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 226 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 227 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 228 | -0.074105216 | -0.0264330731 | 0.70057908  | -0.291139522 | -0.333527479 |
| ## 229 | -0.155784145 | 0.5437938798  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 230 | 0.043875460  | 0.0626648883  | -0.01990451 | -0.311848335 | -0.333527479 |
| ## 231 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.169187621 | -0.333527479 |
| ## 232 | -0.155784145 | -0.1556251171 | -0.14922208 | 0.120735765  | -0.115550063 |
| ## 233 | -0.155784145 | -0.2981818553 | -0.14922208 | 0.068963732  | 3.110515701  |
| ## 234 | -0.155784145 | -0.1734447093 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 235 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 236 | 0.012111432  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 237 | -0.155784145 | 0.1829471362  | 0.66363120  | -0.311848335 | -0.333527479 |
| ## 238 | -0.155784145 | -0.2135387920 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 239 | -0.155784145 | -0.2402681804 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 240 | -0.155784145 | -0.0665271557 | -0.14922208 | -0.173789580 | -0.333527479 |
| ## 241 | 0.393279770  | 0.1205785632  | 0.22025669  | -0.311848335 | -0.263774706 |
| ## 242 | -0.101331526 | -0.2536328746 | -0.14922208 | 0.197818571  | 1.889842169  |
| ## 243 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 244 | -0.155784145 | 2.7356037297  | -0.14922208 | 0.118434786  | -0.333527479 |
| ## 245 | -0.155784145 | 0.2453157092  | -0.14922208 | -0.093255306 | 1.323100886  |
| ## 246 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.109362161 | -0.333527479 |
| ## 247 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 248 | -0.155784145 | -0.0041585827 | -0.14922208 | -0.002366625 | -0.333527479 |
| ## 249 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.067550967  |
| ## 250 | 0.474958699  | 0.6418016373  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 251 | -0.155784145 | -0.3739151224 | -0.14922208 | -0.073696982 | 0.568899025  |
| ## 252 | -0.155784145 | 0.1651275439  | -0.14922208 | 0.133391151  | -0.333527479 |
| ## 253 | -0.155784145 | -0.6011149240 | 37.54684874 | -0.311848335 | -0.333527479 |
| ## 254 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 255 | 0.093790361  | 0.8868210311  | -0.14922208 | -0.248571406 | -0.333527479 |
| ## 256 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.159983704 | -0.333527479 |
| ## 257 | -0.155784145 | -0.2269034862 | 0.10941306  | -0.199100352 | -0.272493803 |
| ## 258 | -0.155784145 | 0.2230412188  | -0.14922208 | 0.114983317  | -0.067595031 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 259 | 0.057488615  | 0.0983040729  | -0.14922208 | -0.311848335 | 0.006517290  |
| ## 260 | 0.275299094  | 0.0359354999  | -0.14922208 | 0.072415201  | 0.429393478  |
| ## 261 | -0.155784145 | -0.2892720591 | -0.14922208 | -0.070245513 | -0.333527479 |
| ## 262 | -0.155784145 | 1.3189461438  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 263 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 264 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 265 | -0.155784145 | 0.2809548937  | -0.14922208 | -0.197949862 | -0.333527479 |
| ## 266 | -0.155784145 | 0.3433234667  | -0.14922208 | 0.175959268  | 1.514921012  |
| ## 267 | -0.105869244 | -0.3917347147 | -0.14922208 | -0.311848335 | -0.233257868 |
| ## 268 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.930455953  | -0.333527479 |
| ## 269 | -0.155784145 | -0.3605504282 | 3.11142801  | -0.311848335 | -0.333527479 |
| ## 270 | -0.155784145 | 0.0893942767  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 271 | -0.155784145 | 0.2542255053  | 1.26403419  | -0.311848335 | -0.333527479 |
| ## 272 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 273 | -0.155784145 | 0.5794330643  | -0.14922208 | -0.159983704 | -0.333527479 |
| ## 274 | -0.155784145 | 1.0204679732  | -0.14922208 | 0.526858605  | 0.193977868  |
| ## 275 | -0.155784145 | 0.3076842821  | -0.14922208 | -0.135823422 | 0.333483415  |
| ## 276 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.011439250  | -0.333527479 |
| ## 277 | -0.155784145 | 1.4347734936  | -0.14922208 | 0.021793657  | -0.333527479 |
| ## 278 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.163303882  | -0.333527479 |
| ## 279 | -0.155784145 | -0.5476561471 | -0.14922208 | 0.990505925  | 0.002157742  |
| ## 280 | -0.155784145 | 1.0338326674  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 281 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.281579802  | -0.333527479 |
| ## 282 | -0.155784145 | 0.4680606126  | -0.14922208 | 1.718765861  | 1.763415267  |
| ## 283 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 284 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 285 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 286 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.968646622  | 0.878426956  |
| ## 287 | -0.155784145 | -0.1868094035 | 1.56885417  | 0.331275368  | 0.882786504  |
| ## 288 | -0.155784145 | -0.2759073649 | -0.14922208 | 0.365790056  | 0.948179729  |
| ## 289 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.355281157  |
| ## 290 | -0.155784145 | 1.8847181985  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 291 | -0.155784145 | 2.9316192448  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 292 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.172180127  |
| ## 293 | -0.083180652 | -0.3872798166 | 0.14636093  | -0.016172501 | -0.194021933 |
| ## 294 | -0.155784145 | -0.0531624615 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 295 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.557921825  | -0.333527479 |
| ## 296 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 297 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.415261111  | -0.333527479 |
| ## 298 | -0.155784145 | -0.0397977673 | -0.14922208 | -0.276183157 | 5.198739351  |
| ## 299 | -0.155784145 | -0.5832953317 | -0.14922208 | -0.188745945 | -0.259415158 |
| ## 300 | -0.155784145 | -0.3070916514 | -0.14922208 | 0.335877326  | 0.385797995  |
| ## 301 | -0.155784145 | 1.1452051191  | -0.14922208 | 3.522733600  | -0.333527479 |
| ## 302 | -0.155784145 | -0.2892720591 | -0.14922208 | -0.311848335 | 0.281168835  |
| ## 303 | 0.252610502  | 0.6106173508  | 0.68210514  | -0.311848335 | -0.333527479 |
| ## 304 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 305 | 0.107403516  | 0.0448452960  | -0.14922208 | -0.211755738 | -0.333527479 |
| ## 306 | 0.425043798  | -0.4140092051 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 307 | -0.155784145 | 0.1695824420  | -0.14922208 | 0.110381359  | 0.507865348  |
| ## 308 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.111531848  | -0.333527479 |
| ## 309 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 310 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.269148928  | -0.333527479 |
| ## 311 | -0.155784145 | -0.0620722576 | -0.14922208 | 0.946787319  | -0.333527479 |
| ## 312 | -0.155784145 | 0.2274961169  | -0.14922208 | -0.311848335 | -0.333527479 |

```

## 313 2.771044161 1.9871808541 -0.14922208 -0.163435173 -0.333527479
## 314 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 315 -0.155784145 -0.6011149240 -0.14922208 -0.191046924 1.039730244
## 316 0.198157882 0.1606726458 0.13712397 -0.311848335 -0.198381481
## 317 -0.155784145 -0.1778996074 -0.14922208 0.660315402 0.778157345
## 318 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 319 -0.155784145 -0.1199859325 -0.14922208 -0.229013082 -0.333527479
## 320 0.488571854 3.2078229250 -0.14922208 0.016041209 -0.333527479
## 321 -0.155784145 -0.3070916514 -0.14922208 -0.311848335 -0.333527479
## 322 -0.155784145 1.0872914442 -0.14922208 -0.311848335 -0.333527479
## 323 -0.155784145 -0.0219781750 -0.14922208 0.286406272 -0.333527479
## 324 -0.155784145 -0.3204563456 -0.14922208 0.141444579 0.163461030
## 325 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 326 -0.155784145 -0.2625426707 -0.14922208 1.190691121 0.669168636
## 327 -0.155784145 0.3878724474 0.35881122 -0.311848335 -0.333527479
## 328 -0.155784145 -0.6011149240 -0.14922208 0.235784728 -0.333527479
## 329 0.801674417 -0.6011149240 -0.14922208 -0.069095024 -0.333527479
## 330 -0.155784145 1.5283263530 -0.14922208 -0.311848335 -0.333527479
## 331 -0.155784145 0.0626648883 -0.14922208 0.118434786 -0.076314128
## 332 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 333 -0.155784145 1.2298481824 -0.14922208 0.753505062 -0.333527479
## 334 -0.155784145 1.0115581770 -0.14922208 -0.311848335 -0.333527479
## 335 1.210069064 -0.4095543070 0.24796759 -0.311848335 0.041393677
## 336 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 337 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 338 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 339 -0.155784145 1.9069926889 -0.14922208 -0.311848335 -0.333527479
## 340 -0.155784145 -0.1066212383 -0.14922208 -0.311848335 0.390157543
## 341 -0.155784145 -0.6011149240 -0.14922208 -0.286537564 -0.237617416
## 342 -0.155784145 0.1161236652 -0.14922208 0.932981444 0.969977471
## 343 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 344 -0.155784145 -0.2491779765 -0.14922208 -0.311848335 -0.333527479
## 345 -0.155784145 0.1784922381 -0.14922208 0.041351981 0.429393478
## 346 0.098328080 0.6462565354 1.40258873 -0.247420916 -0.333527479
## 347 0.792598980 0.1027589709 0.31262638 -0.311848335 -0.272493803
## 348 -0.155784145 -0.1066212383 -0.14922208 0.263396479 1.118202114
## 349 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 350 -0.155784145 -0.6011149240 13.23514612 -0.311848335 -0.333527479
## 351 -0.155784145 0.4858802049 -0.14922208 -0.311848335 -0.333527479
## 352 -0.155784145 -0.6011149240 1.11624269 0.163303882 -0.333527479
## 353 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 354 1.368889205 2.0183651406 1.40258873 -0.311848335 -0.333527479
## 355 -0.155784145 1.7555261545 -0.14922208 -0.311848335 -0.333527479
## 356 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 357 -0.155784145 -0.0977114422 -0.14922208 -0.279634626 0.032674580
## 358 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 359 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.076270063
## 360 -0.155784145 -0.1511702190 -0.14922208 -0.311848335 -0.333527479
## 361 -0.155784145 0.3611430589 -0.14922208 -0.063342575 -0.333527479
## 362 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 363 -0.155784145 1.4704126781 -0.14922208 -0.311848335 -0.333527479
## 364 -0.155784145 -0.6011149240 -0.14922208 0.526858605 -0.333527479
## 365 -0.155784145 -0.1467153209 1.73511962 -0.194498393 -0.333527479
## 366 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479

```



```

## 367 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 368 -0.155784145 0.0047512134 -0.14922208 0.002235333 -0.333527479
## 369 0.189082446 0.2809548937 0.12788700 -0.311848335 -0.202741030
## 370 -0.083180652 0.0582099903 -0.14922208 -0.273882178 -0.263774706
## 371 -0.155784145 -0.5253816568 -0.14922208 -0.311848335 -0.333527479
## 372 -0.155784145 0.0002963154 -0.14922208 -0.234765530 -0.333527479
## 373 -0.155784145 0.2052216265 0.68210514 -0.103609712 -0.333527479
## 374 -0.155784145 1.1407502210 -0.14922208 -0.311848335 -0.333527479
## 375 -0.155784145 -0.3560955302 -0.14922208 -0.311848335 -0.333527479
## 376 -0.155784145 -0.4229190012 -0.14922208 -0.311848335 -0.333527479
## 377 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 378 -0.155784145 -0.4140092051 -0.14922208 -0.239367489 -0.333527479
## 379 -0.155784145 -0.2447230784 -0.14922208 -0.034580335 0.132944192
## 380 -0.155784145 -0.6011149240 -0.14922208 3.816108456 -0.333527479
## 381 -0.155784145 1.0160130751 -0.14922208 -0.103609712 -0.333527479
## 382 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 383 -0.155784145 -0.6011149240 -0.14922208 0.305964596 -0.333527479
## 384 -0.155784145 -0.6011149240 -0.14922208 0.137993110 0.233213803
## 385 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 386 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.067595031
## 387 -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 388 -0.155784145 -0.6011149240 -0.14922208 1.089448034 0.804314635
## 389 -0.155784145 -0.1422604228 -0.14922208 -0.193347904 -0.333527479
## 390 -0.155784145 -0.6011149240 -0.14922208 -0.117415588 -0.333527479
## 391 -0.155784145 -0.1021663402 -0.14922208 -0.311848335 0.398876640
## 392 3.061458132 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 393 -0.155784145 -0.2669975688 -0.14922208 1.171132797 0.324764318
## 394 -0.155784145 -0.2447230784 -0.14922208 0.429066986 0.368359802
## 395 -0.155784145 -0.6011149240 -0.14922208 0.510751750 -0.333527479
## 396 -0.155784145 -0.6011149240 -0.14922208 -0.047235721 0.669168636
## 397 -0.155784145 0.4101469377 1.94756991 -0.311848335 -0.333527479
## 398 -0.155784145 -0.6011149240 -0.14922208 0.096575483 0.180899223
## 399 -0.037803469 -0.1868094035 -0.14922208 -0.296891970 0.189618320
## 400 -0.110406962 3.9874300871 -0.14922208 -0.311848335 6.689704879
## 401 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 402 0.016649150 0.2453157092 -0.14922208 -0.309547356 -0.311729738
## 403 -0.155784145 -0.6011149240 -0.14922208 0.121886255 -0.333527479
## 404 0.520335882 0.2854097918 0.30338941 -0.111663140 -0.333527479
## 405 -0.155784145 0.1339432574 -0.14922208 0.258794521 -0.333527479
## 406 -0.155784145 -0.2580877726 0.44194395 0.088522056 0.115505998
## 407 -0.155784145 0.8556367446 -0.14922208 0.064361773 1.092044824
## 408 -0.155784145 0.2898646898 -0.14922208 0.609693858 -0.333527479
## 409 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 410 -0.155784145 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 411 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.555820380
## 412 -0.155784145 -0.6011149240 -0.14922208 0.721291352 0.124225095
## 413 0.093790361 -0.1110761364 -0.14922208 -0.248571406 -0.333527479
## 414 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 415 -0.155784145 -0.6011149240 -0.14922208 -0.172639090 -0.333527479
## 416 -0.155784145 0.8021779678 -0.14922208 -0.311848335 -0.333527479
## 417 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 418 -0.155784145 0.4324214281 -0.14922208 -0.178391538 -0.333527479
## 419 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 420 -0.155784145 -0.6011149240 -0.14922208 0.126488213 -0.058875935

```

```

## 421 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 422 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 423 -0.155784145 -0.1333506267 -0.14922208 0.901918224 -0.333527479
## 424 -0.155784145 -0.4140092051 -0.14922208 -0.311848335 -0.333527479
## 425 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 426 -0.155784145 -0.1244408306 -0.14922208 -0.017322990 0.721483216
## 427 -0.155784145 -0.6011149240 -0.14922208 0.539513991 -0.333527479
## 428 -0.155784145 -0.0843467480 -0.14922208 1.568051720 0.342202512
## 429 -0.155784145 0.3388685686 -0.14922208 -0.069095024 -0.333527479
## 430 -0.155784145 -0.2179936900 -0.14922208 -0.311848335 -0.333527479
## 431 -0.155784145 -0.4095543070 -0.14922208 -0.311848335 -0.146066901
## 432 2.771044161 1.9871808541 -0.14922208 -0.163435173 -0.333527479
## 433 -0.155784145 0.4546959184 -0.14922208 -0.311848335 -0.333527479
## 434 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 435 -0.155784145 0.2631353014 -0.14922208 -0.311848335 1.362336821
## 436 -0.155784145 -0.6011149240 -0.14922208 1.010064249 -0.333527479
## 437 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 438 0.057488615 0.1072138690 0.13712397 -0.311848335 -0.198381481
## 439 -0.155784145 0.5749781663 -0.14922208 -0.311848335 -0.333527479
## 440 -0.155784145 1.6575183970 -0.14922208 -0.311848335 -0.333527479
## 441 -0.155784145 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 442 -0.155784145 -0.0531624615 -0.14922208 -0.170338111 -0.333527479
## 443 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 444 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 445 0.093790361 0.8868210311 -0.14922208 -0.248571406 -0.333527479
## 446 -0.155784145 1.6129694163 0.99616209 -0.311848335 -0.333527479
## 447 -0.155784145 -0.3739151224 -0.14922208 -0.311848335 -0.333527479
## 448 -0.155784145 -0.3516406321 -0.14922208 0.796073178 0.159101482
## 449 0.270761375 0.2408608111 2.47407714 0.449775799 -0.333527479
## 450 -0.155784145 -0.6011149240 6.78774170 -0.311848335 -0.333527479
## 451 -0.155784145 -0.3471857340 -0.14922208 -0.202551821 -0.333527479
## 452 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 453 -0.155784145 -0.3160014475 -0.14922208 -0.164585663 -0.333527479
## 454 -0.155784145 0.6418016373 -0.14922208 0.865102556 0.071910515
## 455 -0.155784145 -0.6011149240 -0.14922208 0.939884382 -0.333527479
## 456 -0.155784145 0.7130800064 -0.14922208 -0.311848335 -0.333527479
## 457 -0.155784145 0.9224602156 -0.14922208 -0.311848335 -0.333527479
## 458 -0.155784145 -0.3516406321 -0.14922208 -0.148478808 -0.023999548
## 459 -0.155784145 -0.4184641031 -0.14922208 -0.071396003 0.577618121
## 460 -0.155784145 -0.6011149240 -0.14922208 1.800450625 -0.333527479
## 461 -0.155784145 2.2812041267 -0.14922208 -0.311848335 -0.333527479
## 462 0.034800024 0.1695824420 -0.13074814 -0.302644418 -0.311729738
## 463 -0.155784145 0.5437938798 -0.14922208 0.378445442 1.536718754
## 464 -0.155784145 2.6465057683 -0.14922208 0.526858605 -0.333527479
## 465 -0.155784145 -0.6011149240 -0.14922208 1.256269030 -0.333527479
## 466 -0.155784145 -0.6011149240 -0.14922208 0.074716180 -0.333527479
## 467 -0.155784145 -0.3026367533 0.05399124 -0.311848335 -0.333527479
## 468 -0.155784145 0.5304291856 -0.14922208 -0.239367489 0.220135158
## 469 1.400653233 -0.6011149240 1.43029964 -0.311848335 -0.333527479
## 470 -0.155784145 -0.4630130838 -0.14922208 0.118434786 -0.063235483
## 471 -0.155784145 0.2453157092 -0.14922208 -0.202551821 1.737257977
## 472 -0.155784145 0.5794330643 -0.14922208 -0.311848335 -0.333527479
## 473 0.007573714 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 474 -0.155784145 -0.6011149240 -0.14922208 0.311717044 0.847910118

```

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 475 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 476 | -0.119482399 | -0.1066212383 | -0.14922208 | -0.309547356 | -0.333527479 |
| ## 477 | -0.155784145 | 0.0136610096  | -0.14922208 | -0.258925812 | -0.333527479 |
| ## 478 | 0.924192811  | 1.3724049206  | 0.47889182  | -0.311848335 | -0.333527479 |
| ## 479 | -0.155784145 | -0.6011149240 | 6.21504962  | -0.311848335 | -0.333527479 |
| ## 480 | -0.155784145 | -0.1244408306 | -0.14922208 | 0.042502470  | -0.041437741 |
| ## 481 | -0.155784145 | -0.2358132823 | -0.14922208 | 0.186313674  | 1.972673587  |
| ## 482 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.362338588  | -0.333527479 |
| ## 483 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.150382385  |
| ## 484 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 485 | -0.155784145 | -0.0798918499 | -0.14922208 | -0.311848335 | -0.146066901 |
| ## 486 | -0.155784145 | -0.0130683788 | -0.14922208 | -0.024225928 | 0.643011346  |
| ## 487 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 488 | -0.155784145 | 0.0314806018  | -0.14922208 | 0.579781128  | 0.643011346  |
| ## 489 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.038031804 | -0.333527479 |
| ## 490 | -0.155784145 | 0.2096765246  | 0.69134211  | -0.207153779 | -0.333527479 |
| ## 491 | -0.155784145 | 0.3611430589  | -0.14922208 | -0.125469015 | -0.333527479 |
| ## 492 | 1.055786642  | 2.9717133274  | 0.94074028  | -0.311848335 | -0.333527479 |
| ## 493 | -0.155784145 | -0.1199859325 | -0.14922208 | -0.311848335 | 0.372719350  |
| ## 494 | -0.155784145 | 0.4858802049  | -0.14922208 | 1.564600251  | 0.730202313  |
| ## 495 | 0.733608642  | -0.1645349132 | -0.14922208 | -0.199100352 | -0.333527479 |
| ## 496 | -0.155784145 | 0.0626648883  | -0.14922208 | -0.140425381 | -0.333527479 |
| ## 497 | -0.155784145 | 0.0270257038  | -0.14922208 | 0.177109757  | 0.281168835  |
| ## 498 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.256624833 | -0.124269160 |
| ## 499 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 500 | -0.155784145 | 0.0270257038  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 501 | -0.155784145 | -0.0397977673 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 502 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 503 | -0.155784145 | -0.3917347147 | -0.14922208 | -0.203702310 | 0.180899223  |
| ## 504 | -0.155784145 | -0.3249112437 | -0.14922208 | 0.687927153  | 0.477348510  |
| ## 505 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.644208547  | 1.139999856  |
| ## 506 | 0.170931573  | -0.0843467480 | -0.14922208 | -0.095556285 | -0.333527479 |
| ## 507 | -0.155784145 | -0.2224485881 | 0.10941306  | -0.206003290 | -0.272493803 |
| ## 508 | -0.155784145 | -0.6011149240 | -0.14922208 | 2.510302726  | -0.333527479 |
| ## 509 | 0.833438445  | -0.2135387920 | -0.14922208 | -0.111663140 | 0.425033930  |
| ## 510 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.128789193  | -0.333527479 |
| ## 511 | -0.155784145 | -0.3070916514 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 512 | 0.057488615  | 0.0983040729  | -0.14922208 | -0.311848335 | 0.006517290  |
| ## 513 | -0.155784145 | 1.7911653391  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 514 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.852269666  |
| ## 515 | -0.155784145 | -0.3160014475 | -0.14922208 | -0.164585663 | -0.333527479 |
| ## 516 | 0.874277910  | 0.8333622543  | 0.89455543  | -0.247420916 | -0.006561355 |
| ## 517 | -0.155784145 | -0.3739151224 | -0.14922208 | 0.582082107  | -0.333527479 |
| ## 518 | -0.155784145 | -0.0397977673 | -0.14922208 | -0.287688053 | -0.333527479 |
| ## 519 | 0.683693741  | 0.0671197864  | 0.25720456  | -0.311848335 | -0.307370190 |
| ## 520 | 0.393279770  | 0.1205785632  | 0.22025669  | -0.311848335 | -0.263774706 |
| ## 521 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 522 | -0.155784145 | -0.1110761364 | -0.14922208 | 0.251891583  | 0.355281157  |
| ## 523 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.109362161 | 0.433753027  |
| ## 524 | 0.175469291  | 0.3388685686  | 0.22025669  | -0.311848335 | -0.263774706 |
| ## 525 | -0.155784145 | -0.2981818553 | -0.14922208 | 0.240386687  | 2.059864553  |
| ## 526 | -0.155784145 | -0.1378055248 | -0.14922208 | -0.311848335 | 0.350921608  |
| ## 527 | 0.538486755  | -0.1912643016 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 528 | 0.121016671  | 1.4570479839  | 0.41423304  | -0.311848335 | -0.333527479 |

```

## 529 -0.155784145 2.7712429143 -0.14922208 -0.311848335 -0.333527479
## 530 -0.155784145 0.5705232682 -0.14922208 -0.311848335 -0.333527479
## 531 -0.155784145 -0.6011149240 -0.14922208 6.411613061 -0.333527479
## 532 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 533 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 534 0.515798164 0.0047512134 0.26644153 -0.311848335 -0.237617416
## 535 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 536 -0.155784145 -0.6011149240 -0.14922208 1.583008085 -0.333527479
## 537 1.364351486 0.8912759292 -0.14922208 0.460130206 -0.333527479
## 538 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 539 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.124269160
## 540 -0.155784145 0.2631353014 -0.14922208 0.357736629 0.935101084
## 541 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 542 0.220846474 0.1428530536 0.15559790 -0.311848335 -0.189662385
## 543 -0.155784145 -0.1110761364 -0.14922208 0.249590604 0.350921608
## 544 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 545 0.479496417 -0.6011149240 -0.14922208 0.740849676 -0.333527479
## 546 0.415968361 0.1651275439 0.37728516 -0.311848335 -0.237617416
## 547 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 548 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 549 -0.155784145 -0.3293661417 -0.14922208 -0.303794908 0.098067805
## 550 -0.155784145 1.5194165569 -0.14922208 -0.311848335 -0.333527479
## 551 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.529663090
## 552 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 553 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 554 -0.155784145 0.2720450976 -0.14922208 -0.011570542 -0.333527479
## 555 -0.155784145 -0.6011149240 -0.14922208 0.126488213 -0.058875935
## 556 -0.155784145 1.2565775708 -0.14922208 -0.151930277 -0.333527479
## 557 -0.155784145 -0.6011149240 -0.14922208 0.096575483 0.180899223
## 558 -0.155784145 1.5194165569 -0.14922208 -0.311848335 -0.333527479
## 559 -0.155784145 -0.6011149240 -0.14922208 0.847845211 -0.076314128
## 560 1.287210275 2.5930469915 1.31945601 -0.220959655 -0.333527479
## 561 -0.155784145 -0.3739151224 -0.14922208 -0.018473480 -0.002201806
## 562 -0.155784145 0.6908055161 -0.14922208 -0.311848335 -0.333527479
## 563 -0.069567497 0.5259742875 -0.14922208 -0.311848335 -0.333527479
## 564 -0.155784145 -0.6011149240 -0.14922208 1.018117677 -0.333527479
## 565 -0.155784145 0.2364059130 0.22949366 -0.311848335 -0.333527479
## 566 -0.155784145 -0.6011149240 -0.14922208 0.936432913 0.677887733
## 567 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 0.124225095
## 568 -0.155784145 -0.1868094035 -0.14922208 -0.285387074 -0.333527479
## 569 -0.155784145 -0.6011149240 -0.14922208 -0.097857264 -0.333527479
## 570 -0.155784145 -0.2714524669 2.59415774 -0.311848335 -0.333527479
## 571 1.400653233 -0.6011149240 1.43029964 -0.311848335 -0.333527479
## 572 -0.155784145 -0.2402681804 0.10017609 -0.202551821 -0.276853351
## 573 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 574 -0.155784145 -0.2714524669 2.60339471 -0.311848335 -0.333527479
## 575 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 576 0.452270107 -0.2046289958 -0.14922208 -0.311848335 -0.333527479
## 577 -0.155784145 -0.3694602244 -0.14922208 -0.311848335 -0.333527479
## 578 -0.155784145 -0.1823545055 -0.14922208 -0.257775323 -0.333527479
## 579 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 580 -0.155784145 -0.6011149240 -0.14922208 0.475086571 -0.333527479
## 581 -0.155784145 0.8645465407 -0.14922208 -0.186444966 -0.333527479
## 582 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 583 -0.155784145 -0.6011149240 -0.14922208 1.334502325 -0.333527479
## 584 -0.155784145 1.0561071577 -0.14922208 -0.311848335 -0.333527479
## 585 -0.069567497 -0.1600800151 -0.14922208 -0.209454758 0.010876839
## 586 -0.155784145 -0.2001740977 -0.14922208 -0.260076302 -0.333527479
## 587 -0.155784145 1.2343030805 -0.14922208 0.400304745 0.115505998
## 588 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 589 -0.155784145 -0.6011149240 -0.14922208 0.610844348 0.830471924
## 590 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.468629413
## 591 -0.155784145 4.9986919488 -0.14922208 -0.311848335 -0.333527479
## 592 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 593 -0.155784145 0.2542255053 -0.14922208 -0.164585663 -0.333527479
## 594 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 595 -0.155784145 0.6863506180 -0.14922208 -0.311848335 -0.333527479
## 596 -0.155784145 -0.4407385935 -0.14922208 0.862801576 0.935101084
## 597 -0.155784145 0.1339432574 -0.14922208 -0.217508186 -0.333527479
## 598 -0.155784145 -0.2447230784 -0.14922208 0.796073178 -0.333527479
## 599 -0.155784145 -0.2536328746 0.33110032 -0.311848335 -0.333527479
## 600 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 2.822785511
## 601 -0.155784145 0.4725155107 -0.14922208 0.890413328 1.065887534
## 602 -0.155784145 -0.6011149240 -0.14922208 0.238085708 -0.333527479
## 603 -0.155784145 -0.6011149240 -0.14922208 -0.070245513 -0.333527479
## 604 -0.155784145 1.1585698133 -0.14922208 -0.311848335 0.525303541
## 605 -0.155784145 -0.0576173595 -0.14922208 1.165380349 -0.333527479
## 606 -0.155784145 -0.2580877726 -0.14922208 -0.311848335 -0.333527479
## 607 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 608 -0.155784145 2.3212982093 -0.14922208 0.044803450 -0.333527479
## 609 -0.155784145 -0.3338210398 0.12788700 -0.277333647 -0.268134255
## 610 1.246370811 2.1564669808 -0.14922208 -0.311848335 -0.333527479
## 611 -0.155784145 0.5749781663 -0.14922208 -0.311848335 -0.333527479
## 612 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 613 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.124269160
## 614 -0.155784145 0.4546959184 -0.14922208 -0.311848335 -0.333527479
## 615 -0.155784145 -0.2269034862 0.10941306 -0.199100352 -0.272493803
## 616 -0.155784145 0.1383981555 -0.14922208 0.071264711 -0.333527479
## 617 0.080177207 -0.3115465495 -0.14922208 -0.311848335 -0.333527479
## 618 0.411430643 1.0694718519 -0.14922208 0.839791784 -0.333527479
## 619 0.851589318 -0.6011149240 -0.14922208 0.198969060 1.279505402
## 620 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 621 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 622 -0.155784145 -0.6011149240 0.94997724 -0.311848335 -0.333527479
## 623 -0.155784145 1.5906949260 -0.14922208 -0.311848335 -0.333527479
## 624 -0.155784145 -0.1778996074 -0.14922208 0.552169376 0.778157345
## 625 -0.155784145 -0.6011149240 -0.14922208 1.485216466 -0.333527479
## 626 0.270761375 0.2408608111 2.47407714 0.449775799 -0.333527479
## 627 -0.155784145 -0.6011149240 -0.14922208 0.316319002 -0.333527479
## 628 -0.155784145 0.5838879624 0.46041788 -0.311848335 -0.333527479
## 629 0.316138558 1.2610324689 -0.14922208 -0.071396003 -0.333527479
## 630 0.202695601 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 631 0.801674417 -0.6011149240 -0.14922208 -0.069095024 -0.333527479
## 632 -0.155784145 -0.6011149240 -0.14922208 0.539513991 -0.333527479
## 633 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 634 -0.001501723 0.4591508165 1.10700572 -0.311848335 -0.333527479
## 635 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 636 -0.155784145 -0.6011149240 1.64274993 -0.311848335 -0.333527479

```

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 637 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 638 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 639 | -0.155784145 | -0.1155310344 | 0.85760755  | 0.064361773  | -0.333527479 |
| ## 640 | 0.397817488  | 0.4858802049  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 641 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 642 | -0.155784145 | -0.0843467480 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 643 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 644 | 0.025724587  | -0.4674679819 | -0.14922208 | -0.031128866 | -0.023999548 |
| ## 645 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.802976116  | -0.333527479 |
| ## 646 | 0.343364868  | 0.6284369431  | 0.86684452  | -0.248571406 | -0.093752321 |
| ## 647 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.574028679  | -0.333527479 |
| ## 648 | -0.155784145 | 0.5571585740  | -0.14922208 | 1.688853131  | 0.420674382  |
| ## 649 | 2.417102133  | 1.0828365461  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 650 | -0.155784145 | 0.8066328658  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 651 | -0.155784145 | -0.1600800151 | -0.14922208 | 0.722441842  | -0.333527479 |
| ## 652 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 653 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.097857264 | -0.333527479 |
| ## 654 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 1.187954887  |
| ## 655 | 0.661005149  | 0.6017075547  | 0.26644153  | -0.311848335 | -0.333527479 |
| ## 656 | 1.536784782  | 1.0605620558  | -0.14922208 | 0.117284296  | -0.333527479 |
| ## 657 | 1.210069064  | -0.6011149240 | -0.14922208 | 0.034449043  | -0.333527479 |
| ## 658 | -0.078642934 | 0.0804844806  | -0.14922208 | -0.292290012 | -0.037078193 |
| ## 659 | -0.155784145 | 0.6997153122  | -0.14922208 | 0.698281559  | 0.429393478  |
| ## 660 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 661 | -0.101331526 | -0.2536328746 | -0.14922208 | 0.197818571  | 1.889842169  |
| ## 662 | -0.155784145 | -0.1199859325 | -0.14922208 | -0.229013082 | -0.333527479 |
| ## 663 | -0.155784145 | -0.2669975688 | -0.14922208 | 1.171132797  | 0.324764318  |
| ## 664 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 665 | -0.155784145 | -0.1199859325 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 666 | -0.155784145 | 1.3991343090  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 667 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.683325194  | -0.233257868 |
| ## 668 | -0.155784145 | 0.3700528551  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 669 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.972098091  | 0.150382385  |
| ## 670 | -0.155784145 | -0.0665271557 | -0.14922208 | -0.173789580 | -0.333527479 |
| ## 671 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 672 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.391100828  | 0.817393279  |
| ## 673 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 674 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.361188098  | -0.132988256 |
| ## 675 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 676 | -0.155784145 | 0.1205785632  | -0.14922208 | 0.249590604  | -0.333527479 |
| ## 677 | -0.155784145 | 0.1072138690  | -0.14922208 | 0.239236197  | -0.333527479 |
| ## 678 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.453227268  | 0.028315032  |
| ## 679 | 0.170931573  | -0.0353428692 | -0.14922208 | 0.169056330  | 0.773797796  |
| ## 680 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.314018023  | 0.002157742  |
| ## 681 | -0.155784145 | 0.0181159076  | 1.13471663  | -0.311848335 | -0.333527479 |
| ## 682 | 0.425043798  | 0.1294883594  | 0.18330881  | -0.311848335 | -0.176583740 |
| ## 683 | 0.021186869  | 0.4457861223  | -0.14922208 | 0.230032280  | -0.333527479 |
| ## 684 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.096575483  | 0.180899223  |
| ## 685 | 0.824363008  | -0.6011149240 | -0.14922208 | 0.186313674  | 1.240269467  |
| ## 686 | 0.588401657  | -0.1155310344 | 0.85760755  | -0.311848335 | -0.098111870 |
| ## 687 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.169187621 | -0.333527479 |
| ## 688 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 689 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 690 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 691 | -0.155784145 | -0.5031071664 | -0.14922208 | 0.448625310  | 0.050112774  |
| ## 692 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.316319002  | -0.333527479 |
| ## 693 | 4.386471877  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 694 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.542741735  |
| ## 695 | 1.917953119  | 0.7086251083  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 696 | -0.015114878 | -0.0353428692 | 0.13712397  | -0.311848335 | -0.333527479 |
| ## 697 | -0.155784145 | 0.0181159076  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 698 | 1.246370811  | 2.1564669808  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 699 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.202696965  |
| ## 700 | 0.007573714  | -0.1155310344 | -0.14922208 | -0.311848335 | -0.176583740 |
| ## 701 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 702 | -0.155784145 | -0.1244408306 | -0.14922208 | -0.311848335 | 0.368359802  |
| ## 703 | -0.155784145 | 0.1695824420  | -0.14922208 | -0.311848335 | 0.228854255  |
| ## 704 | -0.155784145 | -0.2714524669 | -0.14922208 | 0.457829227  | 0.961258374  |
| ## 705 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 706 | -0.155784145 | 0.6729859238  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 707 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 708 | -0.155784145 | 0.1027589709  | -0.14922208 | -0.220959655 | -0.333527479 |
| ## 709 | -0.019652596 | -0.3338210398 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 710 | -0.155784145 | -0.0442526653 | -0.14922208 | 0.531460563  | 0.119865547  |
| ## 711 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 712 | -0.155784145 | -0.2759073649 | -0.14922208 | 0.616596796  | -0.333527479 |
| ## 713 | -0.155784145 | -0.3338210398 | -0.14922208 | -0.173789580 | 2.024988167  |
| ## 714 | -0.155784145 | 1.2343030805  | -0.14922208 | 0.400304745  | 0.115505998  |
| ## 715 | 0.688231459  | 1.7956202372  | 0.99616209  | -0.311848335 | -0.333527479 |
| ## 716 | -0.155784145 | 4.2636337674  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 717 | -0.155784145 | -0.1467153209 | -0.14922208 | -0.194498393 | -0.333527479 |
| ## 718 | -0.155784145 | 0.0181159076  | -0.14922208 | 0.044803450  | 0.342202512  |
| ## 719 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 720 | -0.155784145 | 1.1986638959  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 721 | 0.352440305  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 722 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 723 | -0.155784145 | -0.0175232769 | 0.45118091  | -0.311848335 | -0.333527479 |
| ## 724 | -0.155784145 | 1.8223496256  | -0.14922208 | -0.311848335 | 0.259371093  |
| ## 725 | -0.155784145 | 0.5571585740  | -0.14922208 | 1.688853131  | 0.420674382  |
| ## 726 | -0.155784145 | -0.0754369518 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 727 | 0.661005149  | 0.6017075547  | 0.26644153  | -0.311848335 | -0.333527479 |
| ## 728 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 729 | 1.232757656  | -0.4095543070 | 0.65439423  | -0.110512650 | -0.146066901 |
| ## 730 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 731 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.006837292  | -0.333527479 |
| ## 732 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 733 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.109362161 | -0.333527479 |
| ## 734 | 0.184544728  | -0.2669975688 | -0.14922208 | -0.311848335 | 0.324764318  |
| ## 735 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.055157856  | 0.826112376  |
| ## 736 | 0.243535066  | -0.6011149240 | -0.14922208 | -0.261226792 | 0.241932900  |
| ## 737 | -0.155784145 | -0.6011149240 | -0.14922208 | 1.151574474  | 0.773797796  |
| ## 738 | 0.048413178  | 0.2007667285  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 739 | -0.155784145 | -0.1110761364 | -0.14922208 | -0.185294476 | -0.333527479 |
| ## 740 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 741 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 742 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 743 | -0.155784145 | 0.3076842821  | -0.14922208 | -0.135823422 | 0.333483415  |
| ## 744 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 745 | -0.155784145 | 0.2230412188  | -0.14922208 | -0.099007754 | -0.067595031 |
| ## 746 | -0.155784145 | -0.6011149240 | 1.56885417  | -0.311848335 | -0.333527479 |
| ## 747 | -0.155784145 | -0.1021663402 | -0.14922208 | -0.311848335 | 3.603144662  |
| ## 748 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.145027339 | 0.298607028  |
| ## 749 | 1.400653233  | -0.6011149240 | -0.14922208 | -0.115114609 | -0.333527479 |
| ## 750 | -0.155784145 | -0.2135387920 | -0.14922208 | 0.697131070  | -0.333527479 |
| ## 751 | -0.155784145 | -0.3382759379 | -0.14922208 | 0.137993110  | 3.450560470  |
| ## 752 | -0.155784145 | -0.6011149240 | 0.81142271  | 0.288707251  | -0.333527479 |
| ## 753 | -0.155784145 | 0.0448452960  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 754 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 755 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 756 | -0.155784145 | 2.4460353552  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 757 | -0.155784145 | 0.0626648883  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 758 | -0.155784145 | 0.2408608111  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 759 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.555820380  |
| ## 760 | -0.155784145 | -0.4407385935 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 761 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.030997574  | 2.269122873  |
| ## 762 | -0.155784145 | -0.1378055248 | -0.14922208 | -0.311848335 | 0.350921608  |
| ## 763 | -0.155784145 | 0.2809548937  | -0.14922208 | -0.084051389 | 0.529663090  |
| ## 764 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.821752828  |
| ## 765 | -0.155784145 | -0.1823545055 | 0.28491547  | -0.203702310 | -0.333527479 |
| ## 766 | -0.155784145 | -0.3427308360 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 767 | -0.155784145 | -0.1021663402 | -0.14922208 | -0.311848335 | 3.603144662  |
| ## 768 | -0.155784145 | 1.1273855268  | 1.64274993  | -0.311848335 | -0.333527479 |
| ## 769 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.608543368  | 0.438112575  |
| ## 770 | -0.155784145 | -0.3961896128 | -0.14922208 | -0.150779787 | -0.333527479 |
| ## 771 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.112813630 | -0.333527479 |
| ## 772 | -0.155784145 | -0.6011149240 | 0.83913362  | -0.311848335 | -0.333527479 |
| ## 773 | 1.246370811  | 2.1564669808  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 774 | -0.155784145 | 0.5126095933  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 775 | -0.155784145 | 0.3655979570  | 2.52949896  | -0.311848335 | -0.333527479 |
| ## 776 | 0.279836812  | 0.4413312242  | -0.14922208 | 0.100026952  | 0.804314635  |
| ## 777 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 778 | -0.155784145 | 0.2854097918  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 779 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.006837292  | -0.333527479 |
| ## 780 | 1.958792584  | 0.5036997972  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 781 | -0.155784145 | 0.0448452960  | 0.29415244  | -0.311848335 | -0.333527479 |
| ## 782 | -0.155784145 | 0.4146018358  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 783 | -0.155784145 | 1.6708830912  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 784 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.898466755  | -0.333527479 |
| ## 785 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 786 | -0.155784145 | -0.2179936900 | -0.14922208 | -0.012721032 | 0.420674382  |
| ## 787 | -0.155784145 | -0.2803622630 | -0.14922208 | 0.351984181  | 0.608134960  |
| ## 788 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 789 | 0.583863938  | 0.1250334613  | -0.14922208 | -0.124318526 | -0.333527479 |
| ## 790 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.383047401  | 0.455550768  |
| ## 791 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 792 | 0.688231459  | 0.5571585740  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 793 | -0.155784145 | -0.2447230784 | -0.14922208 | 0.429066986  | 0.368359802  |
| ## 794 | 0.497647291  | 1.3278559399  | 0.60820939  | -0.288838543 | -0.333527479 |
| ## 795 | -0.155784145 | 2.0183651406  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 796 | -0.155784145 | -0.2001740977 | -0.14922208 | 2.498797830  | -0.333527479 |
| ## 797 | 0.057488615  | 0.1072138690  | 0.13712397  | -0.311848335 | -0.198381481 |
| ## 798 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |



|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 799 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.077148451 | -0.333527479 |
| ## 800 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 801 | -0.155784145 | 0.0671197864  | 0.54355061  | -0.269280219 | -0.333527479 |
| ## 802 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 803 | 18.430710026 | -0.6011149240 | -0.14922208 | -0.231314061 | -0.333527479 |
| ## 804 | -0.155784145 | 0.0403903980  | -0.14922208 | 6.337981724  | -0.333527479 |
| ## 805 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.735097228  | 0.856629214  |
| ## 806 | 3.315570357  | -0.4362836954 | -0.14922208 | 6.364442986  | 5.264132576  |
| ## 807 | -0.155784145 | 0.8912759292  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 808 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.224411124 | 0.106786902  |
| ## 809 | -0.155784145 | -0.2402681804 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 810 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 811 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.628101692  | -0.333527479 |
| ## 812 | -0.155784145 | -0.0531624615 | -0.14922208 | 0.113832828  | -0.333527479 |
| ## 813 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 814 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.180561226  | -0.333527479 |
| ## 815 | -0.155784145 | 4.7002137782  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 816 | -0.155784145 | 4.3482768307  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 817 | -0.155784145 | -0.6011149240 | -0.14922208 | 2.164005348  | -0.333527479 |
| ## 818 | -0.155784145 | 0.0893942767  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 819 | -0.155784145 | 0.3655979570  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 820 | 0.465883262  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 821 | -0.155784145 | 0.0225708057  | 0.70981605  | -0.311848335 | -0.333527479 |
| ## 822 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.648810505  | -0.333527479 |
| ## 823 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 824 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 825 | -0.155784145 | -0.2491779765 | -0.14922208 | 0.279503334  | 1.558516496  |
| ## 826 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.180561226  | -0.333527479 |
| ## 827 | -0.155784145 | 0.8823661330  | 0.28491547  | -0.311848335 | -0.333527479 |
| ## 828 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.330124878  | 0.882786504  |
| ## 829 | -0.155784145 | 0.3477783647  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 830 | -0.155784145 | 0.1072138690  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 831 | -0.155784145 | 1.8891730966  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 832 | -0.155784145 | -0.2224485881 | 0.10941306  | -0.197949862 | -0.272493803 |
| ## 833 | -0.155784145 | -0.3560955302 | -0.14922208 | -0.291139522 | -0.333527479 |
| ## 834 | -0.155784145 | 0.1562177478  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 835 | -0.155784145 | 0.2141314227  | -0.14922208 | 0.179410736  | -0.067595031 |
| ## 836 | 0.075639488  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 837 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 838 | 0.347902586  | 0.0715746845  | -0.05685239 | -0.311848335 | -0.246336513 |
| ## 839 | -0.155784145 | -0.6011149240 | 25.50184106 | -0.311848335 | -0.333527479 |
| ## 840 | -0.155784145 | -0.3293661417 | -0.14922208 | -0.241668468 | -0.333527479 |
| ## 841 | -0.155784145 | 0.0715746845  | -0.14922208 | 0.211624446  | -0.333527479 |
| ## 842 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 843 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 844 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 845 | -0.033265751 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 846 | -0.155784145 | 0.7888132736  | 0.21101972  | -0.311848335 | 0.176539675  |
| ## 847 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.534022638  |
| ## 848 | -0.155784145 | -0.2135387920 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 849 | -0.155784145 | 4.8739548029  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 850 | 0.406892924  | -0.6011149240 | 0.42347001  | -0.240517978 | -0.333527479 |
| ## 851 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.957141726  | 0.146022837  |
| ## 852 | -0.019652596 | -0.1957191997 | -0.14922208 | -0.311848335 | -0.333527479 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 853 | 1.219144501  | 0.7487191910  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 854 | 0.012111432  | -0.0977114422 | -0.14922208 | -0.311848335 | -0.172224191 |
| ## 855 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.194367102  | -0.333527479 |
| ## 856 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.170338111 | -0.333527479 |
| ## 857 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 858 | -0.155784145 | 0.0983040729  | -0.14922208 | 0.230032280  | -0.333527479 |
| ## 859 | 0.003035995  | 0.4235116319  | -0.14922208 | -0.210605248 | 0.207056513  |
| ## 860 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 861 | -0.155784145 | -0.1912643016 | -0.14922208 | 0.167905840  | 0.337842963  |
| ## 862 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.510751750  | 1.052808889  |
| ## 863 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.330124878  | -0.333527479 |
| ## 864 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 865 | -0.155784145 | -0.0576173595 | -0.14922208 | -0.241668468 | -0.067595031 |
| ## 866 | 1.677454049  | 1.1986638959  | -0.14922208 | 0.618897775  | -0.333527479 |
| ## 867 | -0.155784145 | 0.1874020343  | -0.14922208 | -0.210605248 | -0.333527479 |
| ## 868 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 869 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 870 | -0.155784145 | -0.4184641031 | -0.14922208 | -0.217508186 | -0.154785998 |
| ## 871 | -0.155784145 | -0.0175232769 | -0.14922208 | 0.066662753  | -0.333527479 |
| ## 872 | 0.874277910  | 0.8333622543  | 0.89455543  | -0.247420916 | -0.006561355 |
| ## 873 | -0.155784145 | 0.3210489763  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 874 | -0.155784145 | -0.3070916514 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 875 | -0.155784145 | -0.2224485881 | 0.41423304  | 0.136842620  | 0.089348708  |
| ## 876 | 0.057488615  | -0.3917347147 | -0.14922208 | -0.257775323 | -0.333527479 |
| ## 877 | 0.211771037  | 1.4080441052  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 878 | -0.155784145 | -0.3249112437 | -0.14922208 | -0.096706775 | -0.333527479 |
| ## 879 | -0.155784145 | 0.1161236652  | -0.14922208 | -0.126619505 | -0.333527479 |
| ## 880 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.318619982  | 0.534022638  |
| ## 881 | -0.155784145 | 0.5883428605  | 1.07929481  | -0.158833215 | -0.333527479 |
| ## 882 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.050555898  | -0.333527479 |
| ## 883 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.972098091  | 0.150382385  |
| ## 884 | -0.155784145 | -0.2135387920 | -0.14922208 | -0.211755738 | -0.333527479 |
| ## 885 | -0.155784145 | -0.2224485881 | 0.10941306  | -0.206003290 | -0.272493803 |
| ## 886 | -0.155784145 | 0.6729859238  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 887 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 888 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 889 | -0.155784145 | 0.3121391802  | -0.14922208 | -0.272731688 | -0.333527479 |
| ## 890 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.577480148  | 0.015236387  |
| ## 891 | -0.155784145 | -0.3338210398 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 892 | -0.155784145 | 1.1852992017  | -0.14922208 | -0.158833215 | -0.333527479 |
| ## 893 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 894 | -0.155784145 | 1.5996047221  | -0.14922208 | -0.217508186 | 3.254380796  |
| ## 895 | -0.155784145 | -0.0798918499 | -0.14922208 | -0.042633762 | 0.686606830  |
| ## 896 | -0.155784145 | -0.2892720591 | -0.14922208 | -0.311848335 | 0.281168835  |
| ## 897 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 898 | -0.155784145 | 0.4324214281  | -0.14922208 | 0.549868397  | 1.017932503  |
| ## 899 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 900 | -0.155784145 | 0.7264447006  | 0.39575910  | -0.243969447 | -0.333527479 |
| ## 901 | -0.155784145 | -0.1467153209 | -0.14922208 | 0.140294089  | 0.298607028  |
| ## 902 | -0.155784145 | 0.4591508165  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 903 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 904 | -0.155784145 | 0.0893942767  | -0.14922208 | -0.272731688 | 0.189618320  |
| ## 905 | -0.155784145 | 0.4146018358  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 906 | -0.155784145 | -0.6011149240 | 3.49938071  | -0.311848335 | -0.333527479 |

|        |              |               |             |              |              |
|--------|--------------|---------------|-------------|--------------|--------------|
| ## 907 | -0.155784145 | 0.5393389817  | -0.14922208 | 0.572878190  | -0.333527479 |
| ## 908 | -0.155784145 | 0.4190567338  | -0.14922208 | 0.215075915  | 1.863684879  |
| ## 909 | -0.155784145 | -0.6011149240 | 3.30540436  | -0.311848335 | -0.333527479 |
| ## 910 | -0.155784145 | -0.2179936900 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 911 | -0.155784145 | 2.7088743413  | -0.14922208 | 0.114983317  | -0.333527479 |
| ## 912 | -0.155784145 | 0.2631353014  | -0.14922208 | 0.022944147  | -0.333527479 |
| ## 913 | -0.155784145 | 2.0495494271  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 914 | -0.155784145 | -0.6011149240 | -0.14922208 | 3.655039908  | -0.333527479 |
| ## 915 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.411955285  |
| ## 916 | -0.155784145 | 0.1072138690  | -0.14922208 | -0.311848335 | 0.359640705  |
| ## 917 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.210605248 | -0.333527479 |
| ## 918 | -0.155784145 | -0.2625426707 | -0.14922208 | 0.192066122  | 2.216808293  |
| ## 919 | -0.155784145 | -0.0264330731 | -0.14922208 | -0.163435173 | -0.333527479 |
| ## 920 | 1.604850557  | 0.5527036759  | 1.04234694  | -0.311848335 | -0.333527479 |
| ## 921 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.105910692 | -0.333527479 |
| ## 922 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.103609712 | -0.333527479 |
| ## 923 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.311717044  | -0.333527479 |
| ## 924 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.143745558  | -0.333527479 |
| ## 925 | -0.155784145 | -0.0041585827 | -0.14922208 | -0.234765530 | -0.041437741 |
| ## 926 | 0.615627966  | 1.6753379893  | 0.63592030  | 0.276051865  | -0.333527479 |
| ## 927 | 0.175469291  | 0.0493001941  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 928 | 0.316138558  | -0.2937269572 | -0.14922208 | -0.311848335 | -0.146066901 |
| ## 929 | 0.688231459  | 0.5571585740  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 930 | -0.155784145 | 0.9269151137  | -0.14922208 | 0.082769608  | 0.411955285  |
| ## 931 | -0.155784145 | -0.1912643016 | -0.14922208 | 0.167905840  | 0.337842963  |
| ## 932 | -0.155784145 | -0.3560955302 | -0.14922208 | 0.514203219  | -0.333527479 |
| ## 933 | -0.155784145 | -0.4407385935 | -0.14922208 | -0.270430709 | 0.468629413  |
| ## 934 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 935 | -0.155784145 | 1.1496600172  | -0.14922208 | -0.052988169 | -0.089392773 |
| ## 936 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.219809165 | -0.333527479 |
| ## 937 | -0.155784145 | 0.4324214281  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 938 | -0.083180652 | -0.3783700205 | -0.14922208 | -0.311848335 | -0.263774706 |
| ## 939 | 1.128390135  | -0.1244408306 | -0.14922208 | -0.311848335 | -0.102471418 |
| ## 940 | 0.965032276  | 0.4992448991  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 941 | -0.155784145 | -0.2224485881 | -0.14922208 | 0.446324331  | 0.163461030  |
| ## 942 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 943 | 0.184544728  | 0.0715746845  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 944 | -0.155784145 | -0.1823545055 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 945 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 0.590696766  |
| ## 946 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 947 | -0.078642934 | -0.2981818553 | -0.14922208 | 0.362338588  | 0.490427155  |
| ## 948 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.229013082 | -0.333527479 |
| ## 949 | 0.134629826  | 0.6997153122  | 1.64274993  | -0.200250841 | -0.333527479 |
| ## 950 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.172507799  | -0.333527479 |
| ## 951 | -0.155784145 | -0.2269034862 | -0.14922208 | 0.467033144  | 0.773797796  |
| ## 952 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.785718771  | -0.333527479 |
| ## 953 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 954 | -0.155784145 | 0.2274961169  | -0.14922208 | -0.204852800 | 1.698022042  |
| ## 955 | -0.155784145 | -0.4674679819 | -0.14922208 | -0.242818958 | -0.137347805 |
| ## 956 | -0.155784145 | 0.3076842821  | -0.14922208 | 0.040201491  | 0.111146450  |
| ## 957 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 958 | -0.155784145 | 0.4903351029  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 959 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 960 | -0.119482399 | -0.4451934915 | -0.14922208 | -0.140425381 | 0.237573352  |

|         |              |               |             |              |              |
|---------|--------------|---------------|-------------|--------------|--------------|
| ## 961  | -0.155784145 | 0.8155426620  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 962  | 1.772746134  | -0.6011149240 | 1.42106267  | -0.311848335 | -0.333527479 |
| ## 963  | 0.257148220  | 2.2366551460  | 0.26644153  | -0.311848335 | -0.333527479 |
| ## 964  | -0.155784145 | -0.2491779765 | -0.14922208 | 0.279503334  | 1.558516496  |
| ## 965  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 966  | -0.155784145 | -0.1333506267 | -0.14922208 | 0.551018887  | 0.996134761  |
| ## 967  | -0.155784145 | -0.6011149240 | -0.14922208 | 0.111531848  | -0.333527479 |
| ## 968  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.219809165 | 0.132944192  |
| ## 969  | 0.007573714  | 0.0537550922  | -0.14922208 | -0.142726360 | -0.333527479 |
| ## 970  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.111663140 | 0.045753225  |
| ## 971  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 972  | -0.155784145 | -0.1422604228 | -0.14922208 | -0.074847472 | 0.564539476  |
| ## 973  | 0.257148220  | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 974  | -0.155784145 | 1.1184757307  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 975  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 976  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 977  | -0.155784145 | 0.1383981555  | -0.14922208 | -0.216357696 | -0.333527479 |
| ## 978  | -0.155784145 | 1.5951498241  | 1.67046083  | 0.141444579  | -0.333527479 |
| ## 979  | -0.155784145 | 0.2987744860  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 980  | -0.155784145 | -0.6011149240 | -0.14922208 | 1.718765861  | -0.333527479 |
| ## 981  | -0.155784145 | 0.0092061115  | -0.14922208 | -0.311848335 | -0.037078193 |
| ## 982  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 983  | 0.624703403  | 0.2675901995  | 0.42347001  | -0.311848335 | -0.268134255 |
| ## 984  | -0.155784145 | 0.0092061115  | -0.14922208 | 0.004536313  | -0.333527479 |
| ## 985  | 0.148242981  | 0.2987744860  | -0.14922208 | -0.002366625 | -0.333527479 |
| ## 986  | -0.155784145 | 0.1205785632  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 987  | -0.078642934 | -0.2981818553 | -0.14922208 | 0.362338588  | 0.490427155  |
| ## 988  | -0.155784145 | -0.6011149240 | -0.14922208 | 21.698168771 | -0.333527479 |
| ## 989  | -0.155784145 | -0.6011149240 | -0.14922208 | 0.389950339  | -0.333527479 |
| ## 990  | -0.155784145 | -0.2803622630 | -0.14922208 | -0.229013082 | -0.019640000 |
| ## 991  | -0.155784145 | 0.3076842821  | -0.14922208 | 0.040201491  | 0.111146450  |
| ## 992  | -0.155784145 | -0.0487075634 | -0.14922208 | 0.044803450  | -0.063235483 |
| ## 993  | -0.155784145 | 0.3076842821  | -0.14922208 | -0.162284684 | 0.477348510  |
| ## 994  | -0.155784145 | 0.6373467392  | -0.14922208 | -0.258925812 | -0.333527479 |
| ## 995  | -0.155784145 | -0.6011149240 | -0.14922208 | 0.007987782  | 0.608134960  |
| ## 996  | -0.155784145 | 0.0225708057  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 997  | -0.155784145 | 0.2764999956  | -0.14922208 | 1.123962722  | 0.525303541  |
| ## 998  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 999  | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1000 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1001 | -0.155784145 | 0.2898646898  | -0.14922208 | 0.609693858  | -0.333527479 |
| ## 1002 | -0.155784145 | 0.4814253068  | -0.14922208 | 1.558847802  | 0.372719350  |
| ## 1003 | -0.155784145 | -0.6011149240 | -0.14922208 | 0.348532712  | -0.333527479 |
| ## 1004 | -0.155784145 | -0.2892720591 | -0.14922208 | -0.311848335 | 0.281168835  |
| ## 1005 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1006 | -0.155784145 | -0.0041585827 | -0.14922208 | 0.304814106  | -0.333527479 |
| ## 1007 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1008 | -0.155784145 | 1.7555261545  | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1009 | -0.155784145 | 1.3100363476  | 0.12788700  | -0.311848335 | -0.333527479 |
| ## 1010 | -0.155784145 | -0.1422604228 | -0.14922208 | -0.074847472 | 0.564539476  |
| ## 1011 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1012 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1013 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | -0.333527479 |
| ## 1014 | -0.155784145 | -0.6011149240 | -0.14922208 | -0.311848335 | 4.980761934  |

```

## 1015 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1016 -0.155784145 1.3501304303 -0.14922208 -0.311848335 -0.333527479
## 1017 -0.155784145 -0.1021663402 -0.14922208 -0.054138658 0.643011346
## 1018 -0.155784145 0.6418016373 0.70981605 -0.311848335 -0.333527479
## 1019 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1020 -0.155784145 -0.6011149240 -0.14922208 -0.286537564 -0.237617416
## 1021 -0.155784145 -0.4763777780 -0.14922208 -0.149629298 14.074779749
## 1022 -0.155784145 -0.6011149240 -0.14922208 0.113832828 0.560179928
## 1023 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1024 -0.155784145 -0.1511702190 -0.14922208 0.385348380 -0.333527479
## 1025 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1026 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1027 0.161856136 -0.2892720591 -0.14922208 -0.311848335 -0.333527479
## 1028 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.076270063
## 1029 0.406892924 -0.6011149240 0.42347001 -0.240517978 -0.333527479
## 1030 -0.155784145 -0.6011149240 1.63351296 -0.311848335 -0.333527479
## 1031 -0.155784145 -0.6011149240 -0.14922208 0.931830954 -0.333527479
## 1032 -0.155784145 -0.6011149240 0.81142271 0.288707251 -0.333527479
## 1033 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1034 -0.155784145 0.7487191910 -0.14922208 0.733946738 -0.333527479
## 1035 -0.069567497 -0.1600800151 -0.14922208 -0.209454758 0.010876839
## 1036 -0.155784145 0.2542255053 1.26403419 -0.311848335 -0.333527479
## 1037 -0.155784145 1.0204679732 -0.14922208 -0.311848335 -0.333527479
## 1038 -0.155784145 -0.6011149240 -0.14922208 0.608543368 0.826112376
## 1039 -0.155784145 -0.6011149240 -0.14922208 -0.066794044 0.159101482
## 1040 -0.155784145 -0.6011149240 -0.14922208 0.305964596 -0.333527479
## 1041 -0.155784145 -0.2714524669 -0.14922208 0.117284296 0.316045222
## 1042 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1043 -0.155784145 -0.2669975688 -0.14922208 -0.311848335 -0.333527479
## 1044 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1045 0.202695601 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 1046 -0.155784145 0.6774408218 -0.14922208 0.018342188 -0.333527479
## 1047 -0.155784145 0.0626648883 -0.14922208 -0.311848335 -0.333527479
## 1048 -0.155784145 -0.6011149240 -0.14922208 0.893864796 -0.333527479
## 1049 -0.155784145 2.7445135259 -0.14922208 -0.311848335 -0.333527479
## 1050 -0.155784145 -0.1511702190 -0.14922208 0.385348380 -0.333527479
## 1051 -0.155784145 0.2453157092 -0.14922208 -0.093255306 1.323100886
## 1052 -0.155784145 0.3700528551 -0.14922208 -0.061041596 -0.333527479
## 1053 -0.155784145 -0.2981818553 -0.14922208 -0.311848335 -0.333527479
## 1054 -0.155784145 0.2764999956 -0.14922208 -0.311848335 -0.333527479
## 1055 -0.155784145 -0.6011149240 -0.14922208 0.072415201 -0.333527479
## 1056 -0.155784145 0.0715746845 2.64957956 -0.067944534 0.987415664
## 1057 -0.155784145 -0.3605504282 -0.14922208 -0.311848335 -0.215819675
## 1058 0.007573714 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 1059 -0.155784145 -0.2313583842 -0.14922208 0.265697459 -0.333527479
## 1060 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1061 -0.155784145 -0.2402681804 0.10017609 -0.187595455 -0.276853351
## 1062 -0.155784145 -0.1645349132 0.30338941 0.254192562 -0.333527479
## 1063 0.175469291 -0.3872798166 -0.14922208 -0.284236584 -0.333527479
## 1064 -0.155784145 -0.6011149240 -0.14922208 0.269148928 -0.333527479
## 1065 0.847051600 0.2364059130 0.25720456 -0.311848335 -0.189662385
## 1066 0.048413178 -0.1957191997 -0.14922208 -0.260076302 -0.333527479
## 1067 -0.155784145 -0.3070916514 -0.14922208 0.730495269 2.556853063
## 1068 -0.155784145 3.5998539551 -0.14922208 0.773063385 -0.333527479

```

```

## 1069 -0.155784145 -0.1110761364 -0.14922208 0.251891583 0.355281157
## 1070 -0.155784145 -0.6011149240 -0.14922208 0.934131934 0.294247480
## 1071 -0.155784145 -0.6011149240 -0.14922208 -0.066794044 -0.333527479
## 1072 -0.155784145 1.5951498241 -0.14922208 -0.311848335 -0.333527479
## 1073 -0.155784145 1.9426318734 -0.14922208 -0.311848335 -0.333527479
## 1074 -0.155784145 -0.1511702190 -0.14922208 -0.254323854 2.321437453
## 1075 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1076 -0.155784145 0.0849393787 -0.14922208 0.577480148 -0.333527479
## 1077 0.656467431 0.7576289871 0.11865003 -0.278484136 -0.285572448
## 1078 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1079 -0.155784145 -0.6011149240 -0.14922208 2.405608170 -0.333527479
## 1080 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1081 -0.155784145 2.1297375923 -0.14922208 -0.311848335 -0.333527479
## 1082 -0.155784145 0.5883428605 0.46041788 -0.311848335 -0.333527479
## 1083 -0.155784145 -0.2402681804 -0.14922208 0.248440114 -0.333527479
## 1084 -0.155784145 -0.6011149240 -0.14922208 -0.212906227 0.041393677
## 1085 -0.155784145 1.0605620558 -0.14922208 -0.311848335 -0.333527479
## 1086 -0.155784145 0.1562177478 -0.14922208 1.155025942 0.281168835
## 1087 -0.155784145 -0.6011149240 -0.14922208 -0.112813630 -0.333527479
## 1088 -0.133095554 -0.2090838939 -0.14922208 0.055157856 1.754696170
## 1089 -0.155784145 -0.2358132823 -0.14922208 0.450926289 -0.333527479
## 1090 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1091 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1092 -0.155784145 -0.3338210398 -0.14922208 0.638456099 2.914336026
## 1093 0.624703403 0.2675901995 0.42347001 -0.311848335 -0.268134255
## 1094 -0.155784145 -0.6011149240 -0.14922208 -0.081750410 -0.333527479
## 1095 -0.155784145 0.0804844806 -0.14922208 0.085070587 1.170516694
## 1096 -0.033265751 -0.4808326761 -0.14922208 0.192066122 0.499146251
## 1097 0.670080586 1.1852992017 0.85760755 -0.102459223 0.302966577
## 1098 -0.155784145 0.2274961169 -0.14922208 -0.247420916 -0.089392773
## 1099 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1100 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 1101 -0.155784145 1.0204679732 -0.14922208 0.526858605 0.193977868
## 1102 -0.155784145 0.3032293841 0.01704337 -0.291139522 -0.333527479
## 1103 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1104 14.501045975 -0.6011149240 -0.14922208 -0.256624833 -0.333527479
## 1105 -0.087718371 -0.0709820537 -0.08456329 0.184012695 0.150382385
## 1106 -0.155784145 -0.3605504282 -0.14922208 -0.311848335 0.847910118
## 1107 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1108 -0.155784145 0.0181159076 1.13471663 -0.311848335 -0.333527479
## 1109 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1110 0.833438445 0.3700528551 -0.14922208 -0.249721895 -0.333527479
## 1111 -0.155784145 1.1852992017 -0.14922208 -0.158833215 -0.333527479
## 1112 -0.155784145 -0.6011149240 -0.14922208 -0.223260634 -0.333527479
## 1113 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1114 0.565713065 1.8847181985 1.31945601 -0.082900899 -0.333527479
## 1115 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 1116 -0.155784145 0.0092061115 -0.14922208 -0.233615041 -0.333527479
## 1117 0.343364868 -0.1110761364 -0.14922208 -0.311848335 -0.333527479
## 1118 -0.155784145 -0.6011149240 -0.14922208 -0.220959655 0.128584643
## 1119 -0.155784145 0.9892836867 -0.14922208 -0.311848335 -0.333527479
## 1120 -0.155784145 -0.6011149240 1.11624269 0.163303882 -0.333527479
## 1121 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1122 -0.155784145 0.5927977585 -0.14922208 -0.003517115 -0.333527479

```

```

## 1123 -0.155784145 -0.0576173595 0.97768815 -0.311848335 0.599415863
## 1124 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1125 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1126 -0.155784145 -0.6011149240 -0.14922208 0.721291352 0.124225095
## 1127 -0.155784145 -0.0977114422 -0.14922208 -0.208304269 -0.333527479
## 1128 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479
## 1129 -0.155784145 -0.6011149240 -0.14922208 -0.115114609 0.411955285
## 1130 -0.155784145 -0.4541032877 -0.14922208 -0.311848335 -0.333527479
## 1131 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1132 -0.155784145 0.3032293841 -0.14922208 -0.311848335 -0.333527479
## 1133 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1134 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1135 0.393279770 1.0249228712 0.96845118 0.248440114 -0.333527479
## 1136 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1137 -0.033265751 -0.4808326761 -0.14922208 0.192066122 0.499146251
## 1138 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1139 -0.155784145 0.4101469377 1.94756991 -0.311848335 -0.333527479
## 1140 0.833438445 -0.2135387920 -0.14922208 -0.111663140 0.425033930
## 1141 0.148242981 0.2987744860 -0.14922208 -0.002366625 -0.333527479
## 1142 -0.155784145 -0.2625426707 -0.14922208 0.304814106 1.000494309
## 1143 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1144 -0.155784145 0.5126095933 -0.14922208 0.934131934 1.118202114
## 1145 -0.155784145 0.7086251083 -0.14922208 0.139143599 -0.333527479
## 1146 -0.155784145 0.1963118304 -0.14922208 0.101177442 1.423370497
## 1147 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1148 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1149 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1150 -0.155784145 0.1383981555 -0.14922208 -0.216357696 -0.333527479
## 1151 -0.155784145 -0.2892720591 0.06322821 -0.311848335 -0.333527479
## 1152 -0.155784145 0.2408608111 -0.14922208 -0.311848335 -0.333527479
## 1153 -0.155784145 -0.6011149240 -0.14922208 0.064361773 5.582379604
## 1154 -0.155784145 -0.1957191997 -0.14922208 -0.260076302 -0.333527479
## 1155 -0.155784145 -0.3739151224 -0.14922208 -0.311848335 -0.333527479
## 1156 0.974107712 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1157 -0.155784145 0.0715746845 -0.14922208 0.561373294 -0.333527479
## 1158 -0.155784145 -0.5031071664 -0.14922208 -0.311848335 -0.333527479
## 1159 -0.155784145 -0.6011149240 -0.14922208 2.224981298 -0.333527479
## 1160 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1161 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1162 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.032674580
## 1163 0.479496417 -0.6011149240 -0.14922208 0.740849676 -0.333527479
## 1164 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1165 1.042173487 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1166 -0.155784145 -0.2447230784 -0.14922208 0.796073178 -0.333527479
## 1167 -0.155784145 -0.3070916514 -0.14922208 0.730495269 2.556853063
## 1168 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1169 -0.155784145 3.4082933381 -0.14922208 -0.311848335 -0.333527479
## 1170 -0.155784145 -0.0487075634 -0.14922208 -0.025376418 -0.333527479
## 1171 -0.155784145 0.1294883594 -0.14922208 -0.311848335 -0.333527479
## 1172 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1173 -0.155784145 0.6284369431 -0.14922208 -0.153080767 -0.333527479
## 1174 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1175 -0.155784145 0.1116687671 -0.14922208 -0.311848335 -0.333527479
## 1176 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479

```

```

## 1177 -0.155784145 0.0983040729 -0.14922208 -0.311848335 -0.333527479
## 1178 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1179 -0.155784145 -0.3961896128 -0.14922208 -0.232464551 -0.333527479
## 1180 -0.155784145 -0.2848171611 -0.14922208 0.345081243 0.599415863
## 1181 -0.155784145 1.4347734936 -0.14922208 0.021793657 -0.333527479
## 1182 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1183 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1184 -0.155784145 -0.3471857340 -0.14922208 0.171357309 0.499146251
## 1185 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1186 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1187 -0.155784145 -0.6011149240 -0.14922208 1.082545096 -0.333527479
## 1188 0.924192811 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 1189 -0.155784145 2.4282157630 -0.14922208 -0.311848335 -0.333527479
## 1190 0.574788502 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1191 -0.155784145 0.4992448991 -0.14922208 -0.105910692 2.604808095
## 1192 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1193 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1194 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 -0.106830966
## 1195 -0.155784145 -0.6011149240 -0.14922208 -0.157682725 -0.333527479
## 1196 -0.155784145 -0.5031071664 -0.14922208 -0.311848335 -0.333527479
## 1197 1.232757656 0.3076842821 -0.14922208 0.040201491 -0.333527479
## 1198 -0.155784145 0.2141314227 -0.14922208 -0.132371953 0.119865547
## 1199 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.067595031
## 1200 -0.155784145 0.2230412188 -0.14922208 -0.311848335 -0.333527479
## 1201 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.364000253
## 1202 -0.155784145 0.6284369431 -0.14922208 -0.153080767 -0.333527479
## 1203 -0.155784145 -0.6011149240 -0.14922208 -0.038031804 0.704045023
## 1204 -0.155784145 -0.1868094035 -0.14922208 -0.204852800 -0.333527479
## 1205 0.284374530 0.3878724474 -0.14922208 0.198969060 0.756359603
## 1206 -0.114944680 -0.0264330731 -0.14922208 -0.194498393 0.795595538
## 1207 -0.155784145 -0.0175232769 0.24796759 -0.262377281 -0.333527479
## 1208 -0.037803469 -0.1868094035 -0.14922208 -0.296891970 0.189618320
## 1209 -0.155784145 1.4971420665 -0.14922208 -0.311848335 -0.333527479
## 1210 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1211 2.598610865 -0.3160014475 0.18330881 -0.248571406 -0.333527479
## 1212 -0.155784145 -0.6011149240 -0.14922208 1.551944865 1.179235791
## 1213 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1214 19.660431686 -0.6011149240 -0.14922208 -0.226712103 -0.333527479
## 1215 1.042173487 0.3388685686 0.82065968 -0.252022875 -0.333527479
## 1216 -0.155784145 0.5482487778 -0.14922208 -0.311848335 -0.333527479
## 1217 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1218 -0.155784145 0.9491896041 -0.14922208 1.022719635 -0.333527479
## 1219 0.901504220 -0.3427308360 -0.14922208 -0.178391538 0.172180127
## 1220 1.318974303 2.8781604679 -0.14922208 -0.311848335 -0.333527479
## 1221 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1222 -0.155784145 0.1428530536 -0.14922208 -0.311848335 -0.333527479
## 1223 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1224 -0.155784145 0.2631353014 -0.14922208 -0.311848335 -0.333527479
## 1225 -0.155784145 0.0582099903 1.21784935 -0.311848335 -0.333527479
## 1226 -0.155784145 0.3076842821 -0.14922208 -0.311848335 -0.333527479
## 1227 -0.155784145 2.7088743413 -0.14922208 0.114983317 -0.333527479
## 1228 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1229 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1230 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796

```



```

## 1231 -0.155784145 0.3789626512 -0.14922208 -0.311848335 -0.333527479
## 1232 0.093790361 0.1428530536 -0.14922208 -0.311848335 -0.333527479
## 1233 0.089252643 -0.1199859325 -0.14922208 -0.249721895 -0.333527479
## 1234 -0.155784145 0.4368763261 0.92226634 -0.311848335 -0.333527479
## 1235 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1236 -0.155784145 1.0204679732 -0.14922208 -0.311848335 -0.333527479
## 1237 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1238 -0.087718371 -0.3961896128 0.13712397 -0.025376418 -0.198381481
## 1239 -0.155784145 1.6530634990 -0.14922208 -0.254323854 -0.333527479
## 1240 -0.155784145 -0.6011149240 -0.14922208 0.361188098 -0.132988256
## 1241 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1242 -0.155784145 -0.0798918499 -0.14922208 -0.042633762 0.686606830
## 1243 -0.155784145 -0.3961896128 -0.14922208 -0.311848335 -0.333527479
## 1244 -0.155784145 -0.6011149240 -0.14922208 1.388575337 -0.333527479
## 1245 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.525303541
## 1246 -0.155784145 0.4235116319 -0.14922208 0.540664480 1.000494309
## 1247 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 1248 -0.155784145 0.4769704087 -0.14922208 -0.311848335 -0.333527479
## 1249 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1250 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1251 -0.155784145 0.7086251083 -0.14922208 -0.311848335 -0.333527479
## 1252 -0.155784145 0.3210489763 -0.14922208 -0.311848335 -0.333527479
## 1253 0.075639488 0.5348840836 0.79294877 -0.311848335 -0.333527479
## 1254 -0.155784145 0.1027589709 -0.14922208 -0.220959655 -0.333527479
## 1255 -0.155784145 -0.2358132823 -0.14922208 0.186313674 1.972673587
## 1256 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1257 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1258 -0.155784145 1.0160130751 0.96845118 -0.311848335 -0.333527479
## 1259 -0.155784145 -0.3160014475 -0.14922208 -0.126619505 -0.333527479
## 1260 -0.155784145 0.0136610096 -0.14922208 -0.258925812 -0.333527479
## 1261 -0.155784145 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1262 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1263 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1264 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1265 -0.155784145 0.2943195879 -0.14922208 0.770762406 -0.041437741
## 1266 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1267 -0.155784145 -0.1110761364 -0.14922208 0.251891583 0.355281157
## 1268 0.974107712 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1269 -0.155784145 -0.6011149240 -0.14922208 0.225430322 0.682247281
## 1270 -0.155784145 0.3611430589 0.84837058 -0.063342575 -0.333527479
## 1271 -0.155784145 -0.6011149240 -0.14922208 2.164005348 -0.333527479
## 1272 -0.155784145 -0.3872798166 -0.14922208 -0.034580335 -0.019640000
## 1273 1.976943457 -0.6011149240 -0.14922208 -0.041483272 0.690966378
## 1274 -0.155784145 0.8957308272 -0.14922208 -0.311848335 -0.333527479
## 1275 0.043875460 0.0626648883 -0.01990451 -0.311848335 -0.333527479
## 1276 0.706382332 -0.6011149240 -0.14922208 1.332201345 0.080629612
## 1277 -0.155784145 -0.6011149240 -0.14922208 0.419863069 -0.333527479
## 1278 -0.155784145 -0.3115465495 -0.14922208 0.151798985 0.176539675
## 1279 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1280 -0.155784145 4.2190847867 -0.14922208 -0.311848335 -0.333527479
## 1281 -0.110406962 -0.3739151224 -0.14922208 -0.288838543 0.377078898
## 1282 -0.155784145 0.6239820450 0.69134211 0.110381359 -0.333527479
## 1283 -0.155784145 0.8957308272 -0.14922208 1.081394606 1.719819784
## 1284 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1285 -0.096793807 -0.0531624615 -0.14922208 -0.217508186 -0.333527479
## 1286 -0.155784145 -0.6011149240 -0.14922208 1.318395470 -0.333527479
## 1287 -0.155784145 1.2743971631 -0.14922208 -0.070245513 2.421707065
## 1288 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1289 -0.155784145 -0.1199859325 -0.14922208 -0.311848335 0.377078898
## 1290 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1291 -0.155784145 -0.2892720591 0.06322821 -0.311848335 -0.333527479
## 1292 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1293 -0.155784145 -0.4229190012 -0.14922208 -0.311848335 -0.333527479
## 1294 -0.155784145 -0.6011149240 -0.14922208 -0.227862592 0.952539278
## 1295 -0.155784145 0.0671197864 0.54355061 -0.269280219 -0.333527479
## 1296 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1297 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1298 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1299 0.692769178 0.1116687671 0.17407184 -0.311848335 -0.259415158
## 1300 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1301 -0.155784145 -0.4541032877 -0.14922208 0.957141726 0.246292448
## 1302 -0.155784145 0.1562177478 -0.14922208 0.274901376 1.148718953
## 1303 -0.155784145 -0.3160014475 -0.14922208 0.060910305 -0.333527479
## 1304 -0.155784145 0.8422720504 -0.14922208 0.248440114 -0.333527479
## 1305 -0.155784145 -0.1244408306 -0.14922208 0.057458836 0.132944192
## 1306 -0.155784145 -0.6011149240 -0.14922208 0.172507799 0.581977670
## 1307 -0.155784145 0.3032293841 -0.14922208 0.156400944 1.440808691
## 1308 -0.001501723 0.0181159076 0.16483487 -0.311848335 -0.032718645
## 1309 0.198157882 -0.2536328746 -0.14922208 -0.311848335 -0.333527479
## 1310 0.080177207 -0.3115465495 -0.14922208 -0.311848335 -0.333527479
## 1311 -0.155784145 8.3665948890 -0.14922208 -0.311848335 -0.333527479
## 1312 -0.155784145 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 1313 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1314 0.157318418 -0.1422604228 -0.14922208 -0.311848335 -0.285572448
## 1315 -0.155784145 -0.6011149240 -0.14922208 0.577480148 0.015236387
## 1316 -0.155784145 -0.6011149240 -0.14922208 0.578630638 -0.333527479
## 1317 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1318 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1319 -0.155784145 -0.1645349132 -0.14922208 -0.085201878 -0.333527479
## 1320 -0.033265751 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1321 -0.155784145 0.2943195879 -0.14922208 -0.311848335 -0.333527479
## 1322 -0.155784145 -0.6011149240 -0.14922208 1.918951057 -0.333527479
## 1323 -0.155784145 0.2809548937 -0.14922208 -0.311848335 -0.333527479
## 1324 0.202695601 -0.2981818553 -0.14922208 -0.311848335 -0.237617416
## 1325 -0.155784145 -0.2135387920 -0.14922208 -0.311848335 -0.333527479
## 1326 -0.155784145 -0.6011149240 -0.14922208 3.398480720 -0.333527479
## 1327 -0.155784145 -0.6011149240 -0.14922208 0.671820298 3.127953894
## 1328 -0.155784145 -0.6011149240 -0.14922208 0.330124878 -0.333527479
## 1329 -0.096793807 -0.0531624615 -0.14922208 -0.217508186 -0.333527479
## 1330 -0.155784145 -0.0977114422 0.89455543 -0.247420916 -0.333527479
## 1331 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1332 -0.155784145 18.4257547288 -0.14922208 0.432518455 -0.333527479
## 1333 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1334 -0.155784145 0.1784922381 0.38652213 -0.311848335 -0.333527479
## 1335 3.061458132 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 1336 -0.155784145 1.7287967661 -0.14922208 -0.311848335 -0.333527479
## 1337 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479
## 1338 -0.155784145 0.2408608111 -0.14922208 -0.311848335 -0.333527479

```

```

## 1339 -0.155784145 -0.6011149240 -0.14922208 -0.195648883 0.991775213
## 1340 -0.155784145 2.5351333166 -0.14922208 -0.311848335 -0.333527479
## 1341 -0.155784145 -0.3917347147 -0.01066754 0.284105293 0.350921608
## 1342 0.139167545 -0.6011149240 0.14636093 -0.311848335 -0.333527479
## 1343 1.114776980 0.6462565354 -0.14922208 -0.182993497 1.131280759
## 1344 0.012111432 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1345 0.202695601 -0.6011149240 0.21101972 -0.174940070 -0.333527479
## 1346 -0.155784145 -0.2224485881 0.63592030 -0.214056717 -0.333527479
## 1347 -0.155784145 0.0225708057 -0.14922208 -0.311848335 -0.333527479
## 1348 -0.155784145 0.7709936813 -0.14922208 -0.311848335 -0.333527479
## 1349 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1350 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 1351 -0.155784145 -0.0487075634 -0.14922208 0.116133807 -0.333527479
## 1352 -0.155784145 -0.1422604228 -0.14922208 -0.311848335 -0.333527479
## 1353 -0.155784145 -0.0843467480 -0.14922208 0.088522056 -0.333527479
## 1354 -0.155784145 -0.1823545055 0.28491547 -0.094405795 0.281168835
## 1355 -0.155784145 0.5393389817 -0.14922208 -0.311848335 -0.333527479
## 1356 -0.155784145 1.7911653391 -0.14922208 -0.311848335 -0.333527479
## 1357 -0.051416624 -0.4986522684 -0.14922208 -0.311848335 -0.333527479
## 1358 -0.155784145 1.6129694163 0.99616209 -0.311848335 -0.333527479
## 1359 -0.155784145 -0.3249112437 -0.14922208 -0.096706775 -0.333527479
## 1360 -0.155784145 -0.3160014475 -0.14922208 -0.126619505 -0.333527479
## 1361 -0.155784145 1.5149616588 1.31021904 -0.311848335 -0.333527479
## 1362 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1363 -0.155784145 0.3076842821 -0.14922208 -0.077148451 0.220135158
## 1364 -0.155784145 -0.6011149240 -0.14922208 0.646509526 -0.333527479
## 1365 -0.155784145 -0.3560955302 -0.14922208 -0.311848335 -0.333527479
## 1366 -0.155784145 0.6106173508 -0.14922208 -0.311848335 0.259371093
## 1367 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.573258573
## 1368 -0.155784145 -0.6011149240 -0.14922208 0.555620845 0.486067606
## 1369 -0.155784145 0.2809548937 -0.14922208 -0.084051389 2.264763325
## 1370 -0.155784145 -0.2759073649 -0.14922208 0.616596796 -0.333527479
## 1371 -0.155784145 -0.1912643016 -0.14922208 -0.311848335 -0.333527479
## 1372 -0.155784145 0.2542255053 -0.14922208 -0.164585663 -0.333527479
## 1373 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1374 -0.155784145 0.2720450976 -0.14922208 -0.311848335 -0.333527479
## 1375 0.352440305 0.2987744860 0.46965485 -0.311848335 -0.272493803
## 1376 -0.155784145 1.1452051191 -0.14922208 -0.311848335 -0.333527479
## 1377 -0.101331526 -0.1556251171 -0.14922208 -0.311848335 0.102427353
## 1378 -0.155784145 1.0071032790 -0.14922208 -0.311848335 -0.333527479
## 1379 -0.155784145 -0.6011149240 -0.14922208 -0.128920484 -0.333527479
## 1380 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1381 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.930741536
## 1382 -0.155784145 -0.6011149240 -0.14922208 37.053753859 -0.333527479
## 1383 -0.155784145 0.4680606126 -0.14922208 1.718765861 1.763415267
## 1384 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1385 -0.155784145 -0.4184641031 -0.14922208 -0.194498393 0.560179928
## 1386 -0.033265751 0.3255038744 -0.02914148 -0.280785115 -0.333527479
## 1387 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1388 -0.155784145 0.0626648883 -0.14922208 -0.311848335 -0.333527479
## 1389 -0.155784145 0.0270257038 -0.14922208 -0.311848335 -0.333527479
## 1390 -0.155784145 1.4837773723 -0.14922208 -0.204852800 -0.333527479
## 1391 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1392 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1393 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1394 0.062026333 0.9090955214 -0.14922208 -0.256624833 -0.333527479
## 1395 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1396 -0.105869244 -0.3917347147 -0.14922208 -0.311848335 -0.233257868
## 1397 -0.155784145 -0.6011149240 -0.14922208 -0.069095024 2.892538284
## 1398 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1399 -0.155784145 3.2701914980 -0.14922208 1.688853131 -0.333527479
## 1400 -0.155784145 1.3946794110 -0.14922208 -0.247420916 -0.333527479
## 1401 0.697306896 0.0582099903 0.17407184 -0.311848335 -0.289931996
## 1402 -0.155784145 0.4146018358 0.90379240 -0.311848335 -0.333527479
## 1403 -0.155784145 -0.0041585827 -0.14922208 -0.002366625 -0.333527479
## 1404 -0.155784145 -0.6011149240 -0.14922208 -0.086352368 -0.333527479
## 1405 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1406 -0.155784145 0.2185863207 -0.14922208 -0.311848335 -0.333527479
## 1407 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1408 0.143705263 -0.1066212383 -0.14922208 -0.286537564 -0.141707353
## 1409 -0.155784145 -0.6011149240 -0.14922208 -0.079449430 5.843952503
## 1410 -0.155784145 -0.1021663402 -0.14922208 -0.311848335 3.603144662
## 1411 -0.155784145 -0.6011149240 -0.14922208 0.454377758 -0.333527479
## 1412 -0.155784145 -0.2358132823 -0.14922208 -0.217508186 -0.333527479
## 1413 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1414 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1415 -0.155784145 -0.6011149240 -0.14922208 2.246840601 4.998200127
## 1416 -0.155784145 -0.6011149240 -0.14922208 0.364639567 0.346562060
## 1417 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1418 -0.155784145 0.1874020343 -0.14922208 -0.311848335 1.209752629
## 1419 -0.155784145 -0.2981818553 -0.14922208 0.242687666 3.572627824
## 1420 -0.155784145 -0.6011149240 -0.14922208 0.022944147 -0.333527479
## 1421 -0.155784145 0.4146018358 -0.14922208 -0.260076302 -0.333527479
## 1422 -0.019652596 -0.3338210398 -0.14922208 -0.311848335 -0.333527479
## 1423 -0.155784145 -0.4006445109 -0.14922208 -0.249721895 0.180899223
## 1424 -0.155784145 -0.3783700205 -0.14922208 -0.311848335 -0.333527479
## 1425 -0.155784145 0.8556367446 -0.14922208 -0.311848335 0.141663288
## 1426 -0.155784145 -0.3872798166 -0.14922208 -0.034580335 -0.019640000
## 1427 -0.155784145 0.1339432574 -0.14922208 0.258794521 -0.333527479
## 1428 -0.155784145 2.2722943306 -0.14922208 -0.311848335 -0.333527479
## 1429 -0.155784145 0.6863506180 -0.01066754 -0.240517978 -0.132988256
## 1430 -0.155784145 -0.3427308360 -0.14922208 0.127638703 3.359009956
## 1431 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1432 -0.155784145 1.0338326674 0.69134211 -0.311848335 -0.333527479
## 1433 -0.155784145 -0.0531624615 -0.14922208 0.113832828 -0.333527479
## 1434 -0.155784145 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1435 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1436 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 1437 0.288912249 0.4056920396 -0.14922208 0.094274504 0.773797796
## 1438 -0.155784145 2.5351333166 -0.14922208 -0.311848335 -0.333527479
## 1439 -0.155784145 0.0983040729 -0.14922208 -0.311848335 -0.333527479
## 1440 -0.155784145 -0.6011149240 -0.14922208 0.172507799 0.581977670
## 1441 -0.155784145 1.5728753337 -0.14922208 2.720842329 2.644044030
## 1442 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1443 -0.155784145 -0.0531624615 -0.14922208 -0.311848335 -0.333527479
## 1444 -0.155784145 -0.0531624615 -0.14922208 -0.311848335 -0.333527479
## 1445 -0.155784145 0.2364059130 0.22949366 -0.311848335 -0.333527479
## 1446 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1447 -0.155784145 -0.0843467480 -0.14922208 -0.311848335 -0.333527479
## 1448 -0.155784145 2.8247016911 -0.14922208 -0.311848335 -0.333527479
## 1449 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 1450 -0.155784145 0.9670091963 -0.14922208 -0.109362161 -0.333527479
## 1451 -0.155784145 0.6284369431 -0.14922208 -0.311848335 -0.333527479
## 1452 -0.087718371 -0.3917347147 0.13712397 -0.020774459 -0.198381481
## 1453 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1454 -0.155784145 0.5304291856 -0.14922208 -0.165736152 -0.333527479
## 1455 -0.155784145 -0.6011149240 1.94756991 -0.311848335 -0.333527479
## 1456 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.590696766
## 1457 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1458 -0.124020117 0.1473079516 -0.14922208 -0.268129730 -0.067595031
## 1459 -0.155784145 1.2743971631 -0.14922208 -0.070245513 2.421707065
## 1460 0.965032276 0.4992448991 -0.14922208 -0.311848335 -0.333527479
## 1461 -0.037803469 -0.2536328746 -0.14922208 -0.162284684 -0.333527479
## 1462 -0.155784145 -0.2402681804 0.10017609 -0.202551821 -0.276853351
## 1463 0.552099910 -0.6011149240 -0.14922208 0.679873725 -0.333527479
## 1464 -0.155784145 1.0605620558 -0.14922208 0.081619118 2.787909124
## 1465 -0.155784145 -0.6011149240 -0.14922208 -0.111663140 0.045753225
## 1466 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1467 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1468 0.161856136 0.6462565354 -0.14922208 -0.311848335 -0.333527479
## 1469 -0.155784145 0.1829471362 -0.14922208 0.500397343 -0.333527479
## 1470 -0.155784145 -0.6011149240 6.78774170 -0.311848335 -0.333527479
## 1471 -0.155784145 -0.1288957286 -0.14922208 -0.311848335 0.359640705
## 1472 3.084146723 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 1473 -0.155784145 0.5883428605 0.46041788 -0.311848335 -0.333527479
## 1474 0.125554390 0.5036997972 -0.14922208 0.402605725 -0.063235483
## 1475 -0.155784145 -0.2358132823 -0.14922208 0.258794521 0.747640506
## 1476 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1477 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1478 -0.155784145 2.7846076085 0.10941306 -0.311848335 -0.333527479
## 1479 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 1480 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1481 -0.155784145 -0.0041585827 -0.14922208 -0.234765530 -0.041437741
## 1482 -0.155784145 0.6818957199 -0.14922208 0.571727700 -0.333527479
## 1483 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1484 -0.155784145 -0.6011149240 -0.14922208 0.151798985 -0.333527479
## 1485 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 1486 -0.155784145 -0.2179936900 -0.14922208 -0.003517115 0.320404770
## 1487 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1488 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 1489 0.924192811 1.3724049206 0.47889182 -0.311848335 -0.333527479
## 1490 -0.078642934 -0.2981818553 -0.14922208 0.362338588 0.490427155
## 1491 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1492 -0.155784145 2.3613922919 -0.14922208 -0.311848335 2.565572160
## 1493 -0.155784145 2.7356037297 -0.14922208 0.118434786 -0.333527479
## 1494 -0.155784145 -0.2402681804 -0.14922208 0.248440114 -0.333527479
## 1495 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1496 -0.155784145 -0.6011149240 1.58732811 0.120735765 -0.333527479
## 1497 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1498 -0.155784145 -0.1511702190 -0.14922208 -0.254323854 2.321437453
## 1499 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1500 -0.155784145 -0.1066212383 -0.14922208 -0.184143987 -0.333527479

```

```

## 1501 -0.155784145 1.0694718519 -0.14922208 -0.311848335 25.836841142
## 1502 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 1503 -0.155784145 0.1784922381 -0.14922208 -0.311848335 -0.333527479
## 1504 -0.155784145 -0.6011149240 -0.14922208 1.551944865 1.179235791
## 1505 0.071101770 0.7531740890 0.78371180 -0.311848335 -0.333527479
## 1506 -0.155784145 -0.4229190012 -0.14922208 0.338178305 0.193977868
## 1507 -0.155784145 0.5259742875 -0.14922208 1.629027670 0.398876640
## 1508 -0.155784145 0.8378171523 -0.14922208 -0.311848335 -0.333527479
## 1509 -0.155784145 0.4146018358 0.90379240 -0.311848335 -0.333527479
## 1510 -0.155784145 -0.6011149240 -0.14922208 -0.093255306 -0.333527479
## 1511 -0.155784145 0.1695824420 -0.14922208 0.220828363 -0.333527479
## 1512 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.150382385
## 1513 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1514 -0.155784145 -0.3338210398 -0.14922208 -0.173789580 2.024988167
## 1515 0.511260445 0.0537550922 2.56644683 -0.311848335 -0.333527479
## 1516 -0.155784145 0.6373467392 1.13471663 -0.311848335 -0.333527479
## 1517 -0.155784145 -0.3070916514 -0.14922208 -0.235916020 -0.333527479
## 1518 -0.155784145 1.5728753337 -0.14922208 2.720842329 2.644044030
## 1519 -0.155784145 0.7308995987 -0.14922208 0.376144463 0.446831671
## 1520 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1521 0.361515741 -0.6011149240 -0.14922208 -0.246270427 -0.333527479
## 1522 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1523 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1524 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1525 -0.155784145 0.3388685686 -0.14922208 -0.311848335 0.586337218
## 1526 -0.155784145 -0.6011149240 2.29857473 -0.311848335 -0.333527479
## 1527 -0.155784145 -0.4496483896 -0.14922208 0.342780264 0.568899025
## 1528 -0.155784145 0.2898646898 0.46041788 -0.311848335 -0.333527479
## 1529 -0.155784145 -0.0487075634 -0.14922208 0.116133807 -0.333527479
## 1530 -0.155784145 -0.1600800151 -0.14922208 0.715538904 -0.333527479
## 1531 -0.001501723 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1532 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1533 0.742684079 1.7555261545 2.89897772 -0.084051389 -0.333527479
## 1534 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1535 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1536 -0.155784145 -0.6011149240 -0.14922208 2.164005348 -0.333527479
## 1537 -0.155784145 0.1562177478 -0.14922208 -0.311848335 -0.333527479
## 1538 -0.155784145 -0.5832953317 -0.14922208 -0.182993497 -0.255055610
## 1539 -0.155784145 -0.6011149240 -0.14922208 0.494644895 1.192314436
## 1540 -0.155784145 1.2209383863 -0.14922208 0.865102556 4.126290462
## 1541 -0.155784145 -0.2848171611 -0.14922208 -0.311848335 -0.333527479
## 1542 -0.155784145 -0.4541032877 -0.14922208 0.957141726 0.246292448
## 1543 -0.155784145 -0.6011149240 -0.14922208 0.263396479 -0.333527479
## 1544 0.297987685 0.1829471362 -0.14922208 -0.311848335 0.211416062
## 1545 -0.155784145 1.0427424635 -0.14922208 -0.311848335 -0.333527479
## 1546 -0.155784145 -0.6011149240 -0.14922208 0.918025079 -0.333527479
## 1547 -0.155784145 -0.2402681804 -0.14922208 -0.311848335 -0.333527479
## 1548 -0.155784145 -0.3338210398 -0.14922208 0.244988645 -0.333527479
## 1549 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1550 -0.155784145 1.4704126781 -0.14922208 -0.311848335 -0.333527479
## 1551 -0.155784145 -0.1422604228 -0.14922208 -0.311848335 -0.333527479
## 1552 -0.155784145 0.2854097918 -0.14922208 -0.311848335 -0.333527479
## 1553 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1554 -0.155784145 0.1294883594 -0.14922208 2.341180751 0.381438447

```

```

## 1555 -0.155784145 0.2052216265 -0.14922208 0.156400944 4.012942205
## 1556 -0.155784145 -0.6011149240 -0.14922208 0.111531848 2.072943198
## 1557 -0.155784145 -0.2625426707 -0.14922208 0.039051002 1.327460434
## 1558 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1559 -0.155784145 0.3076842821 -0.14922208 0.630402671 -0.333527479
## 1560 0.266223657 -0.6011149240 -0.14922208 -0.204852800 -0.333527479
## 1561 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1562 -0.155784145 -0.6011149240 -0.14922208 0.164454371 -0.333527479
## 1563 0.565713065 1.8847181985 1.31945601 -0.082900899 -0.333527479
## 1564 -0.155784145 -0.6011149240 -0.14922208 0.111531848 -0.333527479
## 1565 -0.155784145 -0.6011149240 -0.14922208 0.624650223 -0.333527479
## 1566 -0.155784145 1.3634951245 -0.14922208 -0.311848335 -0.333527479
## 1567 -0.155784145 -0.4006445109 -0.14922208 0.525708115 0.459910316
## 1568 -0.155784145 0.1473079516 -0.14922208 -0.118566078 -0.333527479
## 1569 -0.155784145 -0.3516406321 -0.14922208 -0.311848335 -0.333527479
## 1570 -0.155784145 -0.6011149240 -0.14922208 0.419863069 -0.333527479
## 1571 -0.155784145 -0.0219781750 0.24796759 -0.311848335 -0.333527479
## 1572 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.333527479
## 1573 -0.019652596 -0.2313583842 -0.14922208 0.307115085 0.298607028
## 1574 -0.155784145 0.1963118304 -0.14922208 0.662616381 0.002157742
## 1575 0.520335882 0.7264447006 -0.14922208 -0.311848335 -0.333527479
## 1576 -0.155784145 -0.6011149240 1.64274993 -0.311848335 -0.333527479
## 1577 -0.155784145 -0.0130683788 -0.14922208 -0.286537564 -0.333527479
## 1578 -0.155784145 1.3055814496 -0.14922208 -0.311848335 -0.333527479
## 1579 1.055786642 2.9717133274 0.94074028 -0.311848335 -0.333527479
## 1580 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1581 0.856127036 0.1205785632 0.62668333 -0.311848335 -0.268134255
## 1582 -0.155784145 2.8247016911 -0.14922208 -0.311848335 -0.333527479
## 1583 -0.155784145 -0.6011149240 -0.14922208 0.316319002 -0.333527479
## 1584 -0.155784145 -0.6011149240 -0.14922208 0.246139135 -0.333527479
## 1585 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1586 0.275299094 1.0917463423 1.60580205 -0.093255306 -0.333527479
## 1587 -0.155784145 -0.6011149240 -0.14922208 0.416411600 -0.058875935
## 1588 -0.155784145 -0.6011149240 -0.14922208 -0.024225928 -0.333527479
## 1589 -0.155784145 1.0471973616 -0.14922208 -0.099007754 -0.333527479
## 1590 -0.155784145 -0.1912643016 -0.14922208 0.114983317 -0.132988256
## 1591 -0.155784145 -0.1689898113 -0.14922208 -0.293440501 -0.050156838
## 1592 -0.155784145 -0.0754369518 -0.14922208 -0.311848335 0.180899223
## 1593 -0.155784145 -0.6011149240 -0.14922208 0.570577211 0.778157345
## 1594 -0.155784145 -0.6011149240 -0.14922208 0.072415201 -0.333527479
## 1595 -0.155784145 2.3212982093 -0.14922208 0.044803450 -0.333527479
## 1596 -0.060492061 -0.4140092051 -0.14922208 0.106929890 -0.054516386
## 1597 -0.155784145 4.0631633543 -0.14922208 -0.311848335 -0.333527479
## 1598 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1599 -0.101331526 -0.2536328746 -0.14922208 0.193216612 1.868044427
## 1600 -0.155784145 2.1965610634 -0.14922208 -0.311848335 -0.333527479
## 1601 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 1602 0.220846474 0.1428530536 0.15559790 -0.311848335 -0.189662385
## 1603 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1604 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1605 -0.155784145 0.4858802049 0.41423304 -0.031128866 -0.333527479
## 1606 -0.155784145 -0.3026367533 -0.14922208 -0.311848335 -0.333527479
## 1607 -0.155784145 0.2007667285 -0.14922208 -0.311848335 -0.333527479
## 1608 -0.155784145 -0.1333506267 -0.14922208 -0.069095024 -0.333527479

```

```

## 1609 -0.155784145 -0.6011149240 -0.14922208 0.225430322 -0.333527479
## 1610 -0.155784145 22.9073821862 -0.14922208 -0.009269563 -0.333527479
## 1611 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1612 -0.155784145 0.4546959184 -0.14922208 0.568276231 1.044089793
## 1613 -0.155784145 -0.3115465495 0.45118091 -0.011570542 -0.050156838
## 1614 -0.055954343 -0.4050994089 -0.14922208 0.450926289 -0.333527479
## 1615 -0.155784145 -0.6011149240 -0.14922208 1.010064249 -0.333527479
## 1616 -0.155784145 -0.2536328746 -0.14922208 0.185163185 1.549797399
## 1617 -0.155784145 -0.0709820537 -0.14922208 -0.038031804 -0.076314128
## 1618 -0.155784145 -0.3471857340 -0.14922208 1.134317129 -0.333527479
## 1619 -0.155784145 1.4392283916 -0.14922208 -0.048386210 -0.333527479
## 1620 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.333527479
## 1621 -0.155784145 -0.1778996074 -0.14922208 -0.161134194 -0.023999548
## 1622 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1623 -0.155784145 -0.2269034862 -0.14922208 0.467033144 0.773797796
## 1624 -0.155784145 -0.6011149240 2.29857473 0.812180033 1.397213207
## 1625 -0.155784145 -0.6011149240 -0.14922208 0.624650223 -0.333527479
## 1626 -0.155784145 -0.4407385935 -0.14922208 -0.270430709 0.468629413
## 1627 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1628 -0.155784145 1.8357143198 -0.14922208 -0.311848335 -0.333527479
## 1629 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1630 -0.155784145 0.6150722489 -0.14922208 -0.311848335 -0.333527479
## 1631 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1632 -0.155784145 -0.4674679819 -0.14922208 -0.242818958 -0.137347805
## 1633 -0.155784145 0.0181159076 -0.14922208 -0.311848335 -0.333527479
## 1634 -0.155784145 -0.2179936900 -0.14922208 -0.311848335 -0.333527479
## 1635 -0.155784145 0.2809548937 -0.14922208 -0.084051389 0.529663090
## 1636 -0.155784145 0.0983040729 -0.14922208 0.230032280 -0.333527479
## 1637 -0.155784145 1.0382875654 -0.14922208 -0.100158244 -0.333527479
## 1638 -0.155784145 -0.6011149240 -0.14922208 0.464732165 -0.333527479
## 1639 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1640 -0.155784145 -0.1378055248 -0.14922208 0.291008231 -0.333527479
## 1641 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1642 -0.155784145 0.5215193894 -0.14922208 1.624425711 0.398876640
## 1643 -0.155784145 3.2657365999 -0.14922208 3.017668653 3.450560470
## 1644 -0.155784145 -0.6011149240 -0.14922208 -0.211755738 -0.333527479
## 1645 -0.051416624 -0.3961896128 -0.14922208 -0.311848335 -0.233257868
## 1646 -0.155784145 0.0181159076 1.13471663 -0.311848335 -0.333527479
## 1647 -0.155784145 -0.6011149240 -0.14922208 -0.237066510 -0.333527479
## 1648 -0.155784145 -0.6011149240 -0.14922208 0.785718771 -0.333527479
## 1649 -0.155784145 0.8378171523 0.34033729 -0.311848335 -0.333527479
## 1650 0.397817488 1.0293777693 -0.14922208 -0.311848335 -0.333527479
## 1651 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1652 -0.155784145 -0.0843467480 -0.14922208 0.088522056 -0.333527479
## 1653 -0.155784145 -0.2046289958 -0.14922208 -0.209454758 0.442472123
## 1654 0.297987685 -0.6011149240 -0.14922208 0.264546969 0.974337019
## 1655 -0.155784145 -0.6011149240 -0.14922208 0.370392015 0.612494508
## 1656 -0.092256089 0.0849393787 0.10941306 -0.311848335 -0.211460126
## 1657 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1658 -0.155784145 -0.1823545055 -0.14922208 -0.257775323 -0.333527479
## 1659 -0.155784145 -0.5298365549 -0.14922208 0.708635966 -0.194021933
## 1660 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1661 -0.155784145 0.5259742875 2.18773110 -0.311848335 -0.333527479
## 1662 -0.155784145 0.0359354999 -0.14922208 -0.311848335 -0.333527479

```



```

## 1663 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1664 -0.155784145 0.5660683701 -0.14922208 0.993957394 1.187954887
## 1665 -0.155784145 1.9738161599 -0.14922208 -0.311848335 -0.333527479
## 1666 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 1667 0.166393854 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1668 -0.155784145 -0.3605504282 -0.14922208 -0.123168036 -0.098111870
## 1669 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.172180127
## 1670 -0.155784145 -0.2536328746 -0.14922208 0.186313674 1.554156947
## 1671 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1672 -0.155784145 0.2809548937 -0.14922208 -0.197949862 -0.333527479
## 1673 0.856127036 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1674 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1675 -0.155784145 -0.6011149240 1.71664568 0.152949475 0.682247281
## 1676 -0.155784145 -0.6011149240 -0.14922208 -0.115114609 0.411955285
## 1677 -0.155784145 0.9803738905 -0.14922208 0.096575483 -0.333527479
## 1678 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 1679 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1680 -0.155784145 0.0582099903 -0.14922208 -0.311848335 -0.333527479
## 1681 -0.155784145 0.5705232682 -0.14922208 -0.311848335 -0.333527479
## 1682 -0.155784145 -0.2358132823 -0.14922208 -0.311848335 0.023955484
## 1683 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1684 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1685 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1686 -0.155784145 0.0893942767 -0.14922208 -0.223260634 -0.333527479
## 1687 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1688 -0.155784145 -0.6011149240 1.19013844 -0.145027339 0.935101084
## 1689 -0.155784145 1.4748675762 -0.14922208 -0.311848335 -0.333527479
## 1690 -0.155784145 -0.3115465495 -0.14922208 0.151798985 0.176539675
## 1691 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1692 -0.155784145 -0.4407385935 -0.14922208 0.862801576 0.935101084
## 1693 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1694 -0.155784145 -0.1868094035 -0.14922208 0.029847085 0.346562060
## 1695 0.062026333 0.9090955214 -0.14922208 -0.256624833 -0.333527479
## 1696 -0.155784145 1.4124990032 -0.14922208 2.984304454 0.978696568
## 1697 -0.155784145 0.4012371416 -0.14922208 0.207022488 1.828808492
## 1698 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1699 -0.155784145 0.6239820450 0.69134211 0.110381359 -0.333527479
## 1700 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.067595031
## 1701 -0.155784145 1.5862400279 1.35640388 -0.311848335 -0.333527479
## 1702 -0.155784145 -0.2135387920 -0.14922208 -0.211755738 -0.333527479
## 1703 -0.155784145 0.1294883594 -0.14922208 -0.186444966 -0.098111870
## 1704 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1705 -0.155784145 -0.6011149240 -0.14922208 -0.109362161 -0.333527479
## 1706 -0.155784145 -0.6011149240 -0.14922208 0.097725973 0.180899223
## 1707 -0.155784145 -0.0843467480 0.04475427 -0.272731688 -0.333527479
## 1708 -0.042341188 -0.2224485881 -0.14922208 -0.263527771 -0.333527479
## 1709 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1710 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1711 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1712 -0.155784145 0.7977230697 -0.14922208 -0.168037132 -0.333527479
## 1713 -0.155784145 1.3278559399 -0.14922208 -0.311848335 0.006517290
## 1714 -0.155784145 -0.6011149240 -0.14922208 0.646509526 -0.333527479
## 1715 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1716 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

|         |              |               |               |              |              |
|---------|--------------|---------------|---------------|--------------|--------------|
| ## 1717 | -0.155784145 | -0.5253816568 | -0.14922208   | 0.004536313  | 0.564539476  |
| ## 1718 | -0.155784145 | 0.4591508165  | -0.14922208   | 0.569426721  | 1.048449341  |
| ## 1719 | -0.155784145 | 0.6863506180  | -0.14922208   | 4.023196589  | -0.333527479 |
| ## 1720 | -0.155784145 | 1.4704126781  | -0.14922208   | -0.311848335 | -0.333527479 |
| ## 1721 | -0.155784145 | -0.3605504282 | 0.47889182    | 0.112682338  | 0.141663288  |
| ## 1722 | -0.155784145 | 1.0917463423  | -0.14922208   | -0.311848335 | -0.333527479 |
| ## 1723 | 0.220846474  | 0.1428530536  | -0.14922208   | 0.265697459  | -0.333527479 |
| ## 1724 | -0.155784145 | 0.2631353014  | 1.64274993    | -0.311848335 | -0.333527479 |
| ##      | V54          | V55           | V56           | V57          | V58          |
| ## 1    | -0.134684699 | -0.0848742899 | -0.2731124978 | -0.423131599 | 0            |
| ## 2    | -0.134684699 | -0.0847231174 | -0.0931187695 | 0.680792554  | 0            |
| ## 3    | -0.134684699 | -0.0909211903 | -0.2183317979 | 0.811628009  | 0            |
| ## 4    | -0.134684699 | -0.1163484065 | -0.3591964548 | -0.498770847 | 0            |
| ## 5    | -0.134684699 | -0.1129319078 | -0.3044157549 | -0.402688559 | 0            |
| ## 6    | -0.134684699 | -0.1055546893 | -0.2652866835 | -0.441530335 | 0            |
| ## 7    | -0.134684699 | -0.1021684251 | -0.2887641263 | -0.282074624 | 0            |
| ## 8    | -0.134684699 | -0.1084572015 | -0.2574608692 | -0.472194895 | 0            |
| ## 9    | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0            |
| ## 10   | -0.134684699 | 0.1285812939  | 0.7677208005  | 1.768362276  | 1            |
| ## 11   | -0.134684699 | 3.0371101473  | 2.7711292543  | 0.533602667  | 1            |
| ## 12   | -0.134684699 | -0.1145948054 | -0.3044157549 | -0.439486031 | 1            |
| ## 13   | -0.134684699 | -0.0774366025 | -0.0226864410 | 1.680457204  | 0            |
| ## 14   | -0.134684699 | -0.1104224441 | -0.2887641263 | -0.318872096 | 0            |
| ## 15   | -0.134684699 | 0.2055885703  | 1.7381217703  | 0.619463435  | 1            |
| ## 16   | 1.680665928  | 0.1164572586  | -0.0305122553 | -0.359758175 | 1            |
| ## 17   | -0.134684699 | -0.1264467301 | -0.3670222690 | -0.519213887 | 0            |
| ## 18   | -0.134684699 | -0.1223953069 | -0.3591964548 | -0.521258190 | 0            |
| ## 19   | 1.742995563  | 0.0137204209  | -0.0539896981 | 0.294419101  | 0            |
| ## 20   | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0            |
| ## 21   | -0.134684699 | -0.0618053650 | -0.0226864410 | -0.392467039 | 0            |
| ## 22   | 1.407973774  | -0.0851161660 | -0.3122415691 | -0.470150591 | 0            |
| ## 23   | -0.134684699 | -0.0928561985 | -0.3044157549 | -0.464017679 | 0            |
| ## 24   | -0.134684699 | -0.0799763006 | 0.0007910018  | 0.159495037  | 0            |
| ## 25   | 0.157485467  | -0.0599005913 | -0.2261576121 | -0.210523984 | 0            |
| ## 26   | -0.134684699 | -0.0936725300 | -0.2026801693 | 0.924064729  | 0            |
| ## 27   | -0.134684699 | -0.1283515038 | -0.3670222690 | -0.482416415 | 1            |
| ## 28   | -0.134684699 | -0.1137482393 | -0.3435448262 | -0.359758175 | 0            |
| ## 29   | -0.134684699 | -0.0609285644 | -0.3278931977 | -0.527391102 | 0            |
| ## 30   | -0.134684699 | -0.1232418729 | -0.3591964548 | -0.519213887 | 0            |
| ## 31   | -0.134684699 | -0.1032568671 | -0.3278931977 | -0.488549327 | 0            |
| ## 32   | -0.134684699 | -0.0740201037 | -0.1713769122 | -0.369979695 | 1            |
| ## 33   | -0.134684699 | -0.1190997462 | -0.2574608692 | -0.196213856 | 0            |
| ## 34   | -0.134684699 | -0.0973006702 | -0.2731124978 | -0.447663247 | 0            |
| ## 35   | -0.134684699 | -0.0670359338 | -0.2887641263 | -0.304561968 | 1            |
| ## 36   | -0.134684699 | -0.1221231963 | -0.3278931977 | -0.435397423 | 0            |
| ## 37   | -0.134684699 | -0.1068850074 | -0.2887641263 | -0.329093616 | 0            |
| ## 38   | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.527391102 | 0            |
| ## 39   | -0.134684699 | -0.0280636608 | 1.1120566285  | 0.075678574  | 1            |
| ## 40   | -0.134684699 | -0.0359246313 | -0.0148606268 | 1.782672404  | 1            |
| ## 41   | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.543745534 | 1            |
| ## 42   | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.527391102 | 0            |
| ## 43   | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0            |
| ## 44   | -0.134684699 | -0.0740201037 | -0.1713769122 | -0.369979695 | 1            |
| ## 45   | 0.044513003  | -0.0065064609 | 0.6425077721  | 1.498514149  | 1            |

|       |              |               |               |              |   |
|-------|--------------|---------------|---------------|--------------|---|
| ## 46 | 0.286040339  | -0.0784343410 | -0.1948543550 | -0.226878416 | 0 |
| ## 47 | -0.134684699 | -0.1138389428 | -0.3278931977 | -0.470150591 | 0 |
| ## 48 | -0.134684699 | -0.1213975683 | -0.3591964548 | -0.523302494 | 0 |
| ## 49 | -0.134684699 | -0.1078525114 | -0.2965899406 | -0.314783488 | 1 |
| ## 50 | -0.134684699 | -0.1087897810 | -0.3591964548 | -0.519213887 | 0 |
| ## 51 | -0.134684699 | -0.1226371829 | -0.3591964548 | -0.376112607 | 0 |
| ## 52 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.525346798 | 0 |
| ## 53 | 0.126320649  | 0.0020196687  | 0.6425077721  | 1.478071109  | 1 |
| ## 54 | -0.134684699 | -0.1176182556 | -0.3357190120 | -0.476283503 | 0 |
| ## 55 | -0.134684699 | -0.1129923768 | -0.3357190120 | -0.488549327 | 0 |
| ## 56 | -0.134684699 | -0.0659777262 | -0.2418092407 | -0.314783488 | 1 |
| ## 57 | -0.134684699 | -0.0649497532 | -0.2965899406 | -0.515125279 | 0 |
| ## 58 | -0.134684699 | -0.1012311555 | -0.3513706405 | -0.531479710 | 0 |
| ## 59 | -0.134684699 | -0.0970890287 | -0.0226864410 | -0.325005008 | 0 |
| ## 60 | -0.134684699 | -0.1012311555 | -0.2887641263 | -0.461973375 | 0 |
| ## 61 | -0.134684699 | -0.0004595605 | -0.2496350550 | -0.482416415 | 0 |
| ## 62 | 0.706765377  | -0.0962122282 | -0.3435448262 | -0.468106287 | 0 |
| ## 63 | -0.134684699 | -0.1199765467 | -0.3591964548 | -0.488549327 | 0 |
| ## 64 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 65 | -0.134684699 | -0.0679732033 | -0.3044157549 | -0.484460719 | 0 |
| ## 66 | -0.134684699 | -0.0906490798 | -0.2809383120 | -0.163504993 | 0 |
| ## 67 | -0.134684699 | -0.0788273896 | -0.3044157549 | -0.374068303 | 0 |
| ## 68 | -0.033399041 | -0.0309057040 | -0.1713769122 | 1.132583736  | 0 |
| ## 69 | -0.134684699 | -0.1020777216 | -0.2418092407 | -0.249365760 | 1 |
| ## 70 | -0.134684699 | -0.0619263030 | -0.2887641263 | -0.412910079 | 0 |
| ## 71 | -0.134684699 | -0.1012311555 | -0.2809383120 | -0.183948033 | 1 |
| ## 72 | 0.671704957  | -0.0834532684 | -0.0774671410 | -0.277986016 | 0 |
| ## 73 | -0.134684699 | -0.0488649981 | 0.3138235727  | 0.108387438  | 0 |
| ## 74 | -0.134684699 | -0.0626821655 | -0.2809383120 | -0.353625264 | 1 |
| ## 75 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 76 | -0.134684699 | -0.1093037675 | -0.2965899406 | 0.355748220  | 1 |
| ## 77 | -0.134684699 | -0.0919793979 | -0.2418092407 | -0.132840433 | 0 |
| ## 78 | 0.153589864  | -0.0314499250 | -0.1713769122 | 0.051146926  | 0 |
| ## 79 | -0.134684699 | -0.1113294792 | -0.2965899406 | -0.425175903 | 1 |
| ## 80 | -0.134684699 | -0.0898932173 | -0.2418092407 | -0.042891057 | 1 |
| ## 81 | -0.134684699 | -0.1028335841 | -0.3357190120 | -0.396555647 | 0 |
| ## 82 | -0.134684699 | -0.1225767139 | -0.3513706405 | -0.457884767 | 0 |
| ## 83 | -0.134684699 | -0.0256449006 | -0.1948543550 | -0.437441727 | 1 |
| ## 84 | -0.134684699 | -0.0928864330 | -0.2339834264 | 0.443653292  | 0 |
| ## 85 | -0.134684699 | -0.1246628945 | -0.3513706405 | -0.447663247 | 0 |
| ## 86 | -0.134684699 | -0.1012311555 | -0.3591964548 | -0.535568318 | 0 |
| ## 87 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.527391102 | 0 |
| ## 88 | 0.067886616  | -0.0663707747 | 0.0555717017  | -0.044935361 | 0 |
| ## 89 | -0.134684699 | -0.1235139834 | -0.3122415691 | -0.008137890 | 1 |
| ## 90 | -0.134684699 | -0.1170740345 | -0.3278931977 | -0.421087295 | 0 |
| ## 91 | -0.134684699 | -0.0594470738 | 0.0242684446  | -0.222789808 | 0 |
| ## 92 | -0.134684699 | -0.1125690937 | -0.3435448262 | -0.521258190 | 0 |
| ## 93 | -0.134684699 | -0.1113294792 | -0.3670222690 | -0.537612622 | 0 |
| ## 94 | -0.134684699 | -0.1169530965 | -0.3200673834 | -0.472194895 | 0 |
| ## 95 | -0.134684699 | -0.1012311555 | -0.3591964548 | -0.531479710 | 0 |
| ## 96 | -0.134684699 | -0.0558189336 | 0.2277396157  | 0.691014074  | 1 |
| ## 97 | -0.134684699 | 0.0045896013  | -0.3122415691 | -0.525346798 | 0 |
| ## 98 | -0.134684699 | -0.1213975683 | -0.3591964548 | -0.523302494 | 0 |
| ## 99 | -0.134684699 | -0.1158344199 | -0.2965899406 | -0.104220177 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 100 | -0.134684699 | -0.1220324928 | -0.3670222690 | -0.504903759 | 1 |
| ## 101 | -0.134684699 | -0.1206719403 | -0.2418092407 | -0.245277152 | 1 |
| ## 102 | 0.063991014  | 0.1301232535  | 0.7911982433  | 1.267507799  | 1 |
| ## 103 | -0.134684699 | 0.0057385124  | -0.0696413267 | -0.400644255 | 1 |
| ## 104 | -0.134684699 | -0.1105433821 | -0.3513706405 | -0.502859455 | 0 |
| ## 105 | -0.134684699 | -0.0709966535 | -0.2574608692 | -0.443574639 | 0 |
| ## 106 | -0.134684699 | -0.0400969925 | 0.3686042726  | 0.562222923  | 1 |
| ## 107 | -0.134684699 | -0.0930073710 | -0.2026801693 | 0.525425451  | 0 |
| ## 108 | -0.134684699 | -0.0886233682 | -0.1322478409 | -0.216656896 | 1 |
| ## 109 | -0.134684699 | -0.0844510069 | -0.2183317979 | -0.312739184 | 1 |
| ## 110 | 0.173067875  | 0.3443951688  | 0.7598949862  | 0.239222893  | 1 |
| ## 111 | 1.739099961  | 0.0639701632  | -0.0539896981 | 0.306684925  | 0 |
| ## 112 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 113 | -0.134684699 | -0.0059017708 | 0.0399200731  | -0.410865775 | 0 |
| ## 114 | -0.134684699 | -0.1012311555 | -0.3513706405 | -0.531479710 | 0 |
| ## 115 | 2.354605109  | 1.4538199835  | 3.4754525388  | 2.729185150  | 1 |
| ## 116 | -0.134684699 | -0.0846021794 | -0.0539896981 | -0.083777137 | 0 |
| ## 117 | 5.584059335  | 0.0499413543  | -0.1165962123 | 0.010260846  | 1 |
| ## 118 | -0.134684699 | -0.0972402012 | -0.1557252837 | -0.085821441 | 1 |
| ## 119 | -0.134684699 | -0.1177391936 | -0.3513706405 | -0.515125279 | 0 |
| ## 120 | -0.134684699 | -0.0878070366 | -0.3122415691 | -0.457884767 | 1 |
| ## 121 | -0.134684699 | -0.0915258804 | -0.2183317979 | -0.414954383 | 0 |
| ## 122 | -0.134684699 | -0.0945190961 | -0.3278931977 | -0.506948063 | 0 |
| ## 123 | -0.134684699 | -0.1104224441 | -0.2731124978 | -0.433353119 | 0 |
| ## 124 | -0.134684699 | -0.1245117220 | -0.3591964548 | -0.515125279 | 0 |
| ## 125 | -0.134684699 | -0.1221836654 | -0.3670222690 | -0.513080975 | 0 |
| ## 126 | -0.134684699 | -0.1156530129 | -0.3044157549 | -0.220745504 | 0 |
| ## 127 | -0.134684699 | -0.1020172526 | -0.1244220266 | -0.079688529 | 1 |
| ## 128 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 129 | -0.134684699 | -0.0398551165 | -0.1713769122 | -0.275941712 | 0 |
| ## 130 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 131 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 132 | -0.134684699 | -0.0902560313 | -0.3513706405 | -0.441530335 | 0 |
| ## 133 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 134 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 135 | -0.134684699 | -0.1015335005 | -0.2809383120 | -0.108308785 | 0 |
| ## 136 | -0.134684699 | 0.0184974722  | 0.0320942589  | 0.999703976  | 1 |
| ## 137 | -0.134684699 | -0.0969680907 | -0.0931187695 | -0.114441697 | 1 |
| ## 138 | -0.134684699 | -0.1234232799 | -0.3670222690 | -0.508992367 | 0 |
| ## 139 | -0.134684699 | -0.1247535980 | -0.3591964548 | -0.502859455 | 0 |
| ## 140 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 141 | -0.134684699 | 0.0031988142  | 0.1416556587  | -0.179859425 | 1 |
| ## 142 | -0.134684699 | -0.1247535980 | -0.3513706405 | -0.480372111 | 0 |
| ## 143 | -0.048981450 | -0.0564236236 | -0.3513706405 | 11.517647993 | 0 |
| ## 144 | -0.134684699 | 0.0277492298  | -0.0696413267 | -0.355669567 | 1 |
| ## 145 | -0.134684699 | -0.1052523443 | -0.2809383120 | 0.517248235  | 1 |
| ## 146 | -0.134684699 | -0.1036801502 | -0.2887641263 | -0.206435376 | 0 |
| ## 147 | -0.134684699 | -0.0928259640 | -0.2026801693 | 0.738033066  | 0 |
| ## 148 | -0.134684699 | -0.0520698553 | -0.0461638839 | 1.476026805  | 1 |
| ## 149 | -0.134684699 | -0.1206719403 | -0.3513706405 | -0.508992367 | 1 |
| ## 150 | -0.013921030 | -0.0476858525 | 0.1494814729  | 0.531558363  | 1 |
| ## 151 | -0.134684699 | -0.0548816640 | 1.0259726715  | 2.810957309  | 1 |
| ## 152 | -0.134684699 | -0.0374061219 | -0.2339834264 | -0.093998657 | 1 |
| ## 153 | -0.134684699 | -0.1173159105 | -0.3278931977 | -0.355669567 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 154 | -0.134684699 | -0.1115108862 | -0.2339834264 | 0.772786234  | 0 |
| ## 155 | -0.134684699 | -0.1156530129 | -0.3513706405 | -0.482416415 | 0 |
| ## 156 | -0.134684699 | -0.0735061172 | 0.0790491445  | -0.112397393 | 1 |
| ## 157 | -0.134684699 | -0.0999915409 | -0.1478994694 | -0.147150561 | 1 |
| ## 158 | -0.134684699 | -0.1012311555 | -0.2418092407 | -0.331137920 | 1 |
| ## 159 | -0.134684699 | 0.1671605183  | 0.3373010155  | 0.541779883  | 1 |
| ## 160 | -0.134684699 | -0.0751690148 | -0.2731124978 | -0.378156911 | 0 |
| ## 161 | -0.134684699 | -0.0851766350 | 0.3059977584  | 0.104298830  | 1 |
| ## 162 | -0.134684699 | -0.0407621516 | -0.2965899406 | -0.490593631 | 1 |
| ## 163 | 0.075677820  | 0.2802980247  | 3.7180527813  | 1.334969830  | 1 |
| ## 164 | -0.134684699 | -0.1219417893 | -0.3591964548 | -0.496726543 | 0 |
| ## 165 | -0.134684699 | -0.0971494977 | -0.2887641263 | -0.290251840 | 0 |
| ## 166 | -0.134684699 | -0.1005357620 | -0.1792027265 | 0.870912825  | 0 |
| ## 167 | 0.917127896  | 0.8058039031  | 0.1964363586  | -0.220745504 | 1 |
| ## 168 | -0.134684699 | -0.1198556087 | -0.3591964548 | -0.511036671 | 0 |
| ## 169 | -0.134684699 | -0.0709966535 | -0.2652866835 | -0.480372111 | 1 |
| ## 170 | -0.134684699 | -0.0955773036 | -0.2809383120 | -0.404732863 | 0 |
| ## 171 | -0.134684699 | -0.0329314156 | 0.2746945013  | 6.235166489  | 1 |
| ## 172 | -0.134684699 | -0.0963331662 | -0.3278931977 | -0.384289823 | 1 |
| ## 173 | -0.134684699 | -0.0099531941 | -0.2496350550 | -0.014270802 | 1 |
| ## 174 | 0.013348185  | -0.0673080443 | 0.1573072872  | 0.594931787  | 0 |
| ## 175 | -0.134684699 | -0.1028940531 | -0.3357190120 | -0.257542976 | 0 |
| ## 176 | -0.134684699 | -0.1035289776 | -0.3200673834 | -0.339315136 | 0 |
| ## 177 | -0.134684699 | -0.1131133148 | -0.3435448262 | -0.455840463 | 0 |
| ## 178 | -0.134684699 | -0.0844812414 | -0.2731124978 | -0.114441697 | 0 |
| ## 179 | -0.134684699 | -0.0056901293 | 0.4468624153  | 0.042969710  | 1 |
| ## 180 | -0.037294644 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## 181 | -0.134684699 | -0.1129923768 | -0.3122415691 | -0.488549327 | 0 |
| ## 182 | 0.083469025  | -0.1074896974 | -0.2261576121 | -0.192125248 | 0 |
| ## 183 | -0.037294644 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## 184 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 185 | 0.025034992  | 0.0178323132  | 0.7755466148  | 1.612995173  | 1 |
| ## 186 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.529435406 | 0 |
| ## 187 | -0.134684699 | -0.0976937188 | -0.2965899406 | -0.327049312 | 0 |
| ## 188 | -0.134684699 | -0.1276863447 | -0.3748480833 | -0.529435406 | 0 |
| ## 189 | -0.134684699 | -0.0342617337 | 0.7364175434  | 0.813672313  | 1 |
| ## 190 | -0.134684699 | -0.1223953069 | -0.3513706405 | -0.494682239 | 0 |
| ## 191 | -0.134684699 | -0.1113294792 | -0.3670222690 | -0.527391102 | 0 |
| ## 192 | -0.134684699 | -0.0823345918 | -0.0226864410 | -0.376112607 | 0 |
| ## 193 | -0.134684699 | -0.0153651699 | -0.2339834264 | 0.629684955  | 0 |
| ## 194 | -0.134684699 | -0.0306940624 | -0.2887641263 | -0.388378431 | 1 |
| ## 195 | -0.134684699 | -0.1276863447 | -0.3748480833 | -0.529435406 | 0 |
| ## 196 | -0.134684699 | -0.0239820030 | 0.0086168160  | -0.296384752 | 1 |
| ## 197 | 0.371743588  | -0.0566352651 | -0.3357190120 | -0.263675888 | 0 |
| ## 198 | -0.134684699 | -0.1166205170 | -0.3044157549 | -0.002004978 | 0 |
| ## 199 | -0.134684699 | -0.0817903707 | -0.1244220266 | -0.153283473 | 0 |
| ## 200 | -0.134684699 | -0.1273537652 | -0.3513706405 | -0.327049312 | 0 |
| ## 201 | -0.134684699 | -0.1120551072 | -0.3591964548 | -0.500815151 | 0 |
| ## 202 | 0.040617400  | 0.0837132930  | 0.3686042726  | 0.298507709  | 0 |
| ## 203 | -0.134684699 | -0.0848742899 | -0.2965899406 | -0.423131599 | 0 |
| ## 204 | -0.134684699 | -0.0876860986 | -0.2652866835 | -0.257542976 | 1 |
| ## 205 | 0.780781819  | -0.0552444780 | -0.0852929552 | 0.308729228  | 1 |
| ## 206 | -0.134684699 | -0.1108457271 | -0.2183317979 | -0.406777167 | 0 |
| ## 207 | -0.134684699 | -0.0615634889 | -0.3044157549 | -0.439486031 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 208 | -0.134684699 | -0.1067338349 | -0.2887641263 | 0.396634300  | 1 |
| ## 209 | 0.200337091  | 0.7873003879  | 2.6772194830  | 0.607197611  | 1 |
| ## 210 | -0.134684699 | 0.0553835646  | 1.0337984858  | 0.186070989  | 1 |
| ## 211 | -0.134684699 | -0.1247535980 | -0.3591964548 | -0.502859455 | 0 |
| ## 212 | -0.134684699 | -0.1098782231 | -0.3435448262 | -0.523302494 | 0 |
| ## 213 | -0.134684699 | -0.0806414597 | -0.3044157549 | -0.427220207 | 1 |
| ## 214 | -0.134684699 | -0.0386457365 | -0.0148606268 | 0.625596347  | 1 |
| ## 215 | -0.134684699 | -0.1085479050 | -0.3044157549 | -0.443574639 | 0 |
| ## 216 | -0.134684699 | -0.1145343364 | -0.3435448262 | -0.468106287 | 0 |
| ## 217 | -0.134684699 | -0.1106945546 | -0.3122415691 | -0.492637935 | 0 |
| ## 218 | -0.134684699 | -0.0985100503 | -0.3357190120 | -0.500815151 | 0 |
| ## 219 | -0.134684699 | -0.1169530965 | -0.3357190120 | -0.396555647 | 0 |
| ## 220 | -0.134684699 | -0.1190392772 | -0.2731124978 | -0.351580960 | 0 |
| ## 221 | -0.134684699 | -0.0763481604 | 0.2746945013  | -0.057201185 | 1 |
| ## 222 | -0.134684699 | -0.1151994954 | -0.3044157549 | -0.384289823 | 0 |
| ## 223 | -0.134684699 | -0.0428180977 | 0.0868749588  | 0.047058318  | 1 |
| ## 224 | -0.134684699 | -0.1165298135 | -0.3122415691 | -0.263675888 | 1 |
| ## 225 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 226 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.519213887 | 0 |
| ## 227 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 1 |
| ## 228 | -0.134684699 | 0.0808107808  | 0.1260040301  | 0.977216632  | 0 |
| ## 229 | -0.134684699 | -0.1223953069 | -0.3357190120 | -0.335226528 | 0 |
| ## 230 | -0.134684699 | -0.0885628992 | -0.1792027265 | 0.594931787  | 0 |
| ## 231 | -0.134684699 | -0.0903165003 | -0.1557252837 | -0.374068303 | 0 |
| ## 232 | -0.037294644 | -0.0930376055 | -0.0070348125 | 0.325083660  | 1 |
| ## 233 | 0.484716052  | 0.0219139710  | 1.1198824428  | 5.672982892  | 1 |
| ## 234 | -0.087937472 | -0.1001124789 | -0.2496350550 | 1.318615398  | 0 |
| ## 235 | 26.729388090 | -0.0969378562 | -0.3278931977 | -0.425175903 | 0 |
| ## 236 | -0.134684699 | -0.0847533519 | -0.2496350550 | -0.204391072 | 0 |
| ## 237 | -0.134684699 | -0.0915863494 | -0.2965899406 | -0.325005008 | 0 |
| ## 238 | -0.134684699 | -0.0771342574 | 0.6033787008  | 0.498849499  | 0 |
| ## 239 | -0.134684699 | -0.0379503429 | 0.2903461299  | -0.012226498 | 0 |
| ## 240 | -0.134684699 | -0.0751690148 | -0.0226864410 | -0.378156911 | 0 |
| ## 241 | -0.134684699 | -0.0744131523 | -0.0383380696 | 1.240931847  | 0 |
| ## 242 | 0.383430394  | 0.0375452085  | 5.3927770357  | 4.221527061  | 1 |
| ## 243 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 244 | -0.134684699 | -0.0755318288 | -0.2731124978 | -0.431308815 | 0 |
| ## 245 | -0.134684699 | -0.0528559524 | -0.2652866835 | -0.400644255 | 1 |
| ## 246 | -0.134684699 | -0.1085479050 | -0.3357190120 | -0.443574639 | 0 |
| ## 247 | -0.134684699 | -0.1289561938 | -0.3748480833 | -0.521258190 | 0 |
| ## 248 | -0.134684699 | -0.0675196858 | -0.2418092407 | -0.382245519 | 1 |
| ## 249 | -0.134684699 | -0.0374061219 | -0.2339834264 | -0.093998657 | 1 |
| ## 250 | -0.134684699 | -0.1216092098 | -0.3435448262 | -0.423131599 | 0 |
| ## 251 | -0.134684699 | -0.0972402012 | -0.1557252837 | -0.085821441 | 1 |
| ## 252 | -0.134684699 | -0.1163484065 | -0.2731124978 | -0.376112607 | 0 |
| ## 253 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 254 | -0.134684699 | -0.0609285644 | -0.3278931977 | -0.527391102 | 0 |
| ## 255 | 0.079573422  | -0.1107550236 | -0.3435448262 | -0.427220207 | 0 |
| ## 256 | -0.134684699 | -0.1118132312 | -0.2731124978 | -0.190080944 | 1 |
| ## 257 | -0.134684699 | -0.0392806610 | -0.0148606268 | 0.627640651  | 1 |
| ## 258 | -0.134684699 | -0.0746852628 | 0.2668686870  | 0.423210252  | 1 |
| ## 259 | -0.134684699 | -0.0906188453 | -0.1713769122 | 0.490672283  | 0 |
| ## 260 | -0.013921030 | 0.0632143006  | 5.0014863220  | 2.083185090  | 1 |
| ## 261 | -0.134684699 | -0.0923724464 | -0.1400736551 | 0.427298860  | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 262 | -0.134684699 | -0.0790692656 | -0.3357190120 | -0.464017679 | 0 |
| ## 263 | -0.134684699 | -0.1094851745 | -0.3513706405 | -0.508992367 | 0 |
| ## 264 | -0.134684699 | -0.0936725300 | -0.3591964548 | -0.511036671 | 0 |
| ## 265 | -0.134684699 | -0.0914049424 | -0.1557252837 | -0.357713871 | 0 |
| ## 266 | -0.134684699 | -0.0377387014 | -0.1948543550 | -0.380201215 | 1 |
| ## 267 | -0.134684699 | -0.1235139834 | -0.3122415691 | -0.008137890 | 1 |
| ## 268 | -0.134684699 | -0.1200067812 | -0.3278931977 | -0.466061983 | 1 |
| ## 269 | -0.134684699 | -0.0275194397 | -0.1713769122 | 2.700564894  | 0 |
| ## 270 | -0.134684699 | -0.0751690148 | -0.2731124978 | -0.378156911 | 0 |
| ## 271 | -0.134684699 | -0.0223795744 | -0.1165962123 | 0.318950748  | 0 |
| ## 272 | 0.761303808  | -0.0854789800 | -0.1478994694 | 0.509071019  | 0 |
| ## 273 | -0.134684699 | -0.0914956459 | -0.2652866835 | -0.400644255 | 1 |
| ## 274 | -0.134684699 | 0.0735545003  | -0.1400736551 | -0.038802449 | 1 |
| ## 275 | 0.262666726  | -0.0799158316 | 0.1807847300  | 0.204469725  | 1 |
| ## 276 | -0.134684699 | -0.1148064469 | -0.2887641263 | -0.392467039 | 0 |
| ## 277 | 0.348369974  | -0.0826671713 | 0.1260040301  | -0.243232848 | 1 |
| ## 278 | 0.508089665  | -0.1078827459 | -0.2887641263 | -0.249365760 | 0 |
| ## 279 | -0.087937472 | -0.0594470738 | 0.2120879871  | 0.897488777  | 1 |
| ## 280 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## 281 | -0.134684699 | 0.4429898797  | 0.9320629002  | -0.179859425 | 1 |
| ## 282 | 0.176963478  | 0.0517251899  | 0.8538047575  | 0.419121644  | 1 |
| ## 283 | -0.134684699 | -0.1239070320 | -0.3670222690 | -0.506948063 | 0 |
| ## 284 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 285 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 286 | 0.223710704  | 5.0688686786  | 2.8806906541  | 0.513159627  | 1 |
| ## 287 | -0.134684699 | -0.0922515084 | -0.2965899406 | -0.327049312 | 1 |
| ## 288 | -0.134684699 | -0.0150628249 | -0.0226864410 | -0.151239169 | 1 |
| ## 289 | -0.134684699 | 0.1417333022  | 1.4485666422  | 1.688634420  | 0 |
| ## 290 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 291 | -0.134684699 | -0.0686988314 | -0.3044157549 | -0.466061983 | 0 |
| ## 292 | -0.134684699 | -0.1187974011 | -0.3513706405 | -0.457884767 | 0 |
| ## 293 | -0.010025428 | -0.0501650817 | 0.1494814729  | 0.545868491  | 1 |
| ## 294 | -0.134684699 | -0.1055546893 | -0.2731124978 | -0.335226528 | 0 |
| ## 295 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.502859455 | 0 |
| ## 296 | -0.134684699 | -0.1153506679 | -0.3513706405 | -0.500815151 | 0 |
| ## 297 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 298 | 1.470303409  | 0.2318623525  | 1.0416243000  | 2.485912975  | 1 |
| ## 299 | -0.068459461 | -0.0431204427 | 3.4363234675  | 6.139084201  | 1 |
| ## 300 | -0.006129826 | -0.0677917963 | -0.1244220266 | 0.049102622  | 1 |
| ## 301 | -0.134684699 | -0.0845719449 | -0.2965899406 | -0.396555647 | 1 |
| ## 302 | 0.687287366  | 0.6187128050  | 0.4233849725  | 0.296463405  | 0 |
| ## 303 | -0.134684699 | -0.1061896138 | -0.2887641263 | -0.341359440 | 0 |
| ## 304 | -0.134684699 | -0.1094851745 | -0.3591964548 | -0.508992367 | 0 |
| ## 305 | -0.134684699 | -0.1151390264 | -0.2496350550 | -0.122618913 | 1 |
| ## 306 | -0.134684699 | -0.1122667487 | -0.3435448262 | -0.263675888 | 0 |
| ## 307 | 0.165276671  | -0.0843300689 | 0.1964363586  | 0.247400109  | 1 |
| ## 308 | -0.134684699 | -0.0827578748 | -0.2965899406 | -0.451751855 | 1 |
| ## 309 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.527391102 | 0 |
| ## 310 | -0.134684699 | -0.0898932173 | -0.3591964548 | -0.508992367 | 0 |
| ## 311 | -0.134684699 | -0.1005962310 | -0.2652866835 | -0.353625264 | 1 |
| ## 312 | -0.134684699 | -0.0763481604 | -0.0931187695 | -0.057201185 | 1 |
| ## 313 | -0.134684699 | -0.0741712763 | -0.2652866835 | -0.038802449 | 0 |
| ## 314 | -0.134684699 | -0.1223953069 | -0.3513706405 | -0.494682239 | 0 |
| ## 315 | -0.134684699 | -0.0644357666 | -0.1557252837 | -0.396555647 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 316 | -0.134684699 | -0.0586912112 | -0.0696413267 | 0.545868491  | 0 |
| ## 317 | 0.235397511  | -0.0348966582 | 0.2668686870  | 0.909754601  | 1 |
| ## 318 | -0.134684699 | -0.1247535980 | -0.3670222690 | -0.525346798 | 0 |
| ## 319 | -0.134684699 | -0.0756225323 | 0.0790491445  | -0.053112577 | 0 |
| ## 320 | -0.134684699 | -0.1079734494 | -0.2965899406 | -0.384289823 | 0 |
| ## 321 | -0.134684699 | -0.1190090426 | -0.3200673834 | -0.365891087 | 0 |
| ## 322 | -0.134684699 | 0.0839551690  | 0.1964363586  | -0.149194865 | 0 |
| ## 323 | -0.134684699 | -0.0558794026 | -0.0305122553 | -0.333182224 | 1 |
| ## 324 | -0.087937472 | 0.0662679853  | 4.8449700366  | 2.334634480  | 1 |
| ## 325 | -0.134684699 | -0.1135668323 | -0.3278931977 | -0.459929071 | 0 |
| ## 326 | -0.134684699 | 0.0205231839  | 0.3216493869  | -0.104220177 | 1 |
| ## 327 | -0.134684699 | -0.1161669995 | -0.2965899406 | -0.304561968 | 0 |
| ## 328 | -0.134684699 | -0.0818206052 | -0.3200673834 | -0.472194895 | 0 |
| ## 329 | -0.134684699 | -0.1199765467 | -0.3591964548 | -0.488549327 | 0 |
| ## 330 | -0.134684699 | -0.0621984135 | -0.2261576121 | -0.386334127 | 0 |
| ## 331 | -0.134684699 | 0.1115895038  | 0.7677208005  | 1.799026835  | 1 |
| ## 332 | -0.134684699 | 0.0045896013  | -0.3200673834 | -0.525346798 | 0 |
| ## 333 | -0.134684699 | -0.0541258015 | -0.1948543550 | -0.300473360 | 1 |
| ## 334 | -0.134684699 | -0.0361362728 | -0.1244220266 | -0.216656896 | 0 |
| ## 335 | -0.134684699 | -0.0963634007 | -0.2418092407 | -0.083777137 | 0 |
| ## 336 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 337 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 338 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 339 | -0.134684699 | -0.0537327529 | -0.3044157549 | -0.394511343 | 0 |
| ## 340 | -0.134684699 | -0.1165298135 | -0.3122415691 | -0.263675888 | 1 |
| ## 341 | 3.328505659  | 0.2148403279  | 0.4468624153  | 1.692723028  | 1 |
| ## 342 | 0.223710704  | -0.0022433961 | 0.7520691719  | 1.457628070  | 1 |
| ## 343 | -0.134684699 | 0.1615671355  | 0.1181782159  | -0.263675888 | 1 |
| ## 344 | -0.134684699 | -0.0917072874 | -0.2574608692 | -0.367935391 | 0 |
| ## 345 | -0.080146268 | 0.0480365806  | 4.8449700366  | 1.933950899  | 1 |
| ## 346 | -0.134684699 | -0.1052825788 | -0.2574608692 | -0.318872096 | 0 |
| ## 347 | -0.134684699 | -0.0478974941 | 0.2746945013  | 2.361210432  | 0 |
| ## 348 | -0.134684699 | -0.0631659175 | -0.1557252837 | -0.188036641 | 1 |
| ## 349 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 350 | -0.134684699 | -0.1012311555 | -0.3513706405 | -0.519213887 | 0 |
| ## 351 | -0.134684699 | -0.1114201827 | -0.3122415691 | -0.204391072 | 0 |
| ## 352 | 0.399012803  | -0.0694244594 | -0.2887641263 | -0.310694880 | 0 |
| ## 353 | 0.352265577  | 0.0560487237  | 4.2658597804  | 4.385071380  | 1 |
| ## 354 | -0.134684699 | 0.0079153966  | -0.0618155124 | 0.128830478  | 0 |
| ## 355 | -0.134684699 | -0.0407621516 | -0.3044157549 | -0.408821471 | 0 |
| ## 356 | -0.134684699 | -0.1289561938 | -0.3748480833 | -0.521258190 | 0 |
| ## 357 | -0.134684699 | -0.0114044502 | -0.0774671410 | 0.539735579  | 1 |
| ## 358 | 3.468747339  | 0.0153833185  | -0.2652866835 | -0.464017679 | 0 |
| ## 359 | -0.134684699 | -0.0374061219 | -0.2339834264 | -0.093998657 | 1 |
| ## 360 | -0.134684699 | -0.1055546893 | -0.2652866835 | -0.441530335 | 0 |
| ## 361 | 0.706765377  | -0.0962122282 | -0.3435448262 | -0.468106287 | 0 |
| ## 362 | -0.134684699 | -0.1012311555 | -0.3513706405 | -0.531479710 | 0 |
| ## 363 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 364 | -0.134684699 | -0.1050104682 | -0.3591964548 | -0.517169583 | 0 |
| ## 365 | 0.660018151  | -0.0975727808 | -0.3122415691 | -0.369979695 | 0 |
| ## 366 | -0.134684699 | -0.1127505007 | -0.2965899406 | -0.408821471 | 0 |
| ## 367 | -0.134684699 | -0.0558794026 | -0.3200673834 | -0.504903759 | 0 |
| ## 368 | -0.134684699 | -0.0834532684 | -0.1635510980 | -0.367935391 | 0 |
| ## 369 | -0.134684699 | -0.0343826717 | 0.2433912442  | 0.838203961  | 0 |



|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 370 | -0.134684699 | -0.0995380234 | 0.1181782159  | 0.196292509  | 0 |
| ## 371 | -0.134684699 | -0.1307400294 | -0.3670222690 | -0.286163232 | 0 |
| ## 372 | -0.134684699 | -0.0807926322 | -0.2574608692 | -0.361802479 | 1 |
| ## 373 | -0.134684699 | -0.0256449006 | -0.1244220266 | -0.235055632 | 0 |
| ## 374 | -0.134684699 | -0.0886233682 | -0.0696413267 | 0.435476076  | 1 |
| ## 375 | -0.134684699 | -0.1119946382 | -0.2887641263 | -0.396555647 | 0 |
| ## 376 | -0.134684699 | -0.0862348425 | -0.2652866835 | 0.110431742  | 0 |
| ## 377 | -0.134684699 | -0.1081548564 | -0.3513706405 | -0.421087295 | 0 |
| ## 378 | 0.769095012  | -0.0669754648 | 0.5564238151  | 0.983349544  | 0 |
| ## 379 | -0.134684699 | -0.0823950608 | -0.1165962123 | -0.049023969 | 1 |
| ## 380 | -0.134684699 | -0.0856301525 | -0.2574608692 | -0.388378431 | 1 |
| ## 381 | -0.134684699 | -0.1228488244 | -0.3591964548 | -0.492637935 | 0 |
| ## 382 | -0.134684699 | -0.0861139045 | -0.3200673834 | -0.517169583 | 0 |
| ## 383 | -0.134684699 | 2.0303012323  | 1.8555089844  | 0.045014014  | 1 |
| ## 384 | 0.878171874  | -0.0966959802 | -0.3357190120 | -0.459929071 | 1 |
| ## 385 | -0.134684699 | -0.0981774708 | -0.3044157549 | -0.251410064 | 1 |
| ## 386 | -0.134684699 | -0.0314196905 | -0.0931187695 | -0.063334097 | 0 |
| ## 387 | 0.157485467  | -0.0599005913 | -0.2261576121 | -0.210523984 | 0 |
| ## 388 | -0.134684699 | -0.0007619055 | 0.1416556587  | -0.177815121 | 1 |
| ## 389 | -0.134684699 | -0.1209742853 | -0.3591964548 | -0.484460719 | 0 |
| ## 390 | -0.134684699 | -0.0996589614 | -0.2261576121 | -0.468106287 | 0 |
| ## 391 | -0.134684699 | -0.1165298135 | -0.3122415691 | -0.263675888 | 1 |
| ## 392 | -0.134684699 | -0.1000520099 | -0.2496350550 | 0.298507709  | 1 |
| ## 393 | -0.134684699 | 0.0357009039  | 1.7694250274  | 0.813672313  | 1 |
| ## 394 | -0.134684699 | -0.0854487455 | -0.2809383120 | -0.320916400 | 1 |
| ## 395 | -0.134684699 | -0.1259932126 | -0.3748480833 | -0.521258190 | 1 |
| ## 396 | -0.134684699 | 0.0057385124  | -0.0696413267 | -0.400644255 | 1 |
| ## 397 | -0.134684699 | -0.0394620680 | -0.1713769122 | -0.167593601 | 0 |
| ## 398 | -0.134684699 | -0.0917072874 | -0.2965899406 | -0.277986016 | 1 |
| ## 399 | -0.134684699 | -0.0813368532 | -0.2026801693 | 0.631729259  | 0 |
| ## 400 | -0.095728677 | 0.0665400958  | 1.7850766559  | 7.122394419  | 1 |
| ## 401 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 402 | -0.134684699 | -0.0969076217 | 0.4468624153  | 5.928520891  | 0 |
| ## 403 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.480372111 | 0 |
| ## 404 | -0.134684699 | -0.0399760545 | 0.3920817154  | 0.695102682  | 0 |
| ## 405 | 0.184754682  | 0.3470255705  | 0.7677208005  | 0.243311501  | 1 |
| ## 406 | -0.087937472 | 0.0013242751  | 0.5407721866  | 2.428672464  | 1 |
| ## 407 | -0.134684699 | -0.1168926275 | -0.3591964548 | -0.459929071 | 0 |
| ## 408 | -0.134684699 | -0.0174815851 | -0.0696413267 | 0.173805165  | 1 |
| ## 409 | -0.134684699 | -0.1247535980 | -0.3670222690 | -0.525346798 | 0 |
| ## 410 | -0.134684699 | -0.0911630663 | -0.1478994694 | -0.390422735 | 0 |
| ## 411 | -0.134684699 | -0.0050552048 | -0.1948543550 | -0.431308815 | 1 |
| ## 412 | -0.134684699 | 13.2422522954 | 9.9787041994  | 2.171090161  | 1 |
| ## 413 | -0.134684699 | -0.1028335841 | -0.3357190120 | -0.396555647 | 0 |
| ## 414 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 415 | -0.134684699 | -0.0446624023 | -0.1870285408 | -0.239144240 | 1 |
| ## 416 | -0.134684699 | -0.1264467301 | -0.3670222690 | -0.504903759 | 0 |
| ## 417 | -0.134684699 | -0.1244210185 | -0.3591964548 | -0.472194895 | 0 |
| ## 418 | -0.134684699 | -0.1127505007 | -0.3122415691 | -0.408821471 | 0 |
| ## 419 | -0.134684699 | -0.0672173408 | -0.2731124978 | -0.445618943 | 0 |
| ## 420 | -0.134684699 | -0.1005962310 | -0.2965899406 | -0.353625264 | 1 |
| ## 421 | -0.134684699 | -0.1084572015 | -0.3513706405 | -0.472194895 | 0 |
| ## 422 | -0.134684699 | -0.1257211021 | -0.3670222690 | -0.496726543 | 0 |
| ## 423 | -0.134684699 | -0.1002334169 | -0.2652866835 | -0.302517664 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 424 | -0.134684699 | -0.0855394490 | -0.0305122553 | -0.280030320 | 0 |
| ## 425 | -0.134684699 | -0.0969680907 | -0.0931187695 | -0.114441697 | 1 |
| ## 426 | -0.084041870 | 0.0240001516  | 4.1719500091  | 2.189488897  | 1 |
| ## 427 | -0.134684699 | -0.1163484065 | -0.3591964548 | -0.511036671 | 0 |
| ## 428 | -0.134684699 | -0.0415180141 | -0.0226864410 | 0.443653292  | 1 |
| ## 429 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.525346798 | 0 |
| ## 430 | -0.134684699 | -0.1190695117 | -0.3513706405 | -0.386334127 | 0 |
| ## 431 | -0.134684699 | -0.1167414550 | -0.3591964548 | -0.423131599 | 0 |
| ## 432 | -0.134684699 | -0.0741712763 | -0.2652866835 | -0.038802449 | 0 |
| ## 433 | 0.095155831  | -0.0858115595 | -0.2965899406 | -0.296384752 | 0 |
| ## 434 | -0.134684699 | -0.1223953069 | -0.3591964548 | -0.521258190 | 0 |
| ## 435 | -0.134684699 | -0.0528559524 | -0.2652866835 | -0.400644255 | 1 |
| ## 436 | -0.134684699 | -0.1175275521 | -0.3670222690 | -0.508992367 | 1 |
| ## 437 | -0.134684699 | -0.1055546893 | -0.3513706405 | -0.521258190 | 0 |
| ## 438 | -0.134684699 | -0.0650706912 | -0.1400736551 | 0.484539371  | 0 |
| ## 439 | -0.134684699 | -0.0863557805 | -0.2965899406 | -0.196213856 | 1 |
| ## 440 | -0.134684699 | -0.0697570390 | -0.1244220266 | -0.249365760 | 0 |
| ## 441 | -0.134684699 | -0.0294242134 | 0.0399200731  | -0.404732863 | 0 |
| ## 442 | 1.310583718  | 0.0050431189  | -0.1244220266 | -0.175770817 | 0 |
| ## 443 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 444 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.484460719 | 1 |
| ## 445 | 0.079573422  | -0.1107550236 | -0.3435448262 | -0.427220207 | 0 |
| ## 446 | 0.348369974  | -0.0436646638 | -0.1713769122 | -0.212568288 | 0 |
| ## 447 | -0.134684699 | -0.1166507515 | -0.2418092407 | -0.380201215 | 1 |
| ## 448 | 0.527567676  | -0.0824252953 | -0.0226864410 | -0.263675888 | 1 |
| ## 449 | -0.134684699 | 0.1427008063  | 0.6346819579  | 0.049102622  | 1 |
| ## 450 | -0.134684699 | -0.1185252906 | -0.3591964548 | -0.527391102 | 0 |
| ## 451 | -0.134684699 | -0.0795530176 | -0.2026801693 | 0.102254526  | 1 |
| ## 452 | -0.134684699 | -0.1145948054 | -0.3044157549 | -0.439486031 | 1 |
| ## 453 | -0.134684699 | -0.1117225277 | -0.3513706405 | -0.372023999 | 0 |
| ## 454 | -0.134684699 | -0.0522210278 | 0.1025265873  | 0.155406429  | 1 |
| ## 455 | -0.134684699 | 0.0110597848  | 0.4468624153  | -0.138973345 | 1 |
| ## 456 | -0.134684699 | -0.0850556970 | -0.2965899406 | -0.402688559 | 0 |
| ## 457 | -0.134684699 | -0.0946702686 | -0.3122415691 | -0.443574639 | 1 |
| ## 458 | -0.080146268 | -0.1032266326 | -0.2418092407 | 0.235134285  | 0 |
| ## 459 | -0.134684699 | -0.0777691820 | 0.1964363586  | -0.116486001 | 1 |
| ## 460 | -0.134684699 | -0.0623798205 | -0.2418092407 | -0.359758175 | 1 |
| ## 461 | -0.134684699 | -0.0770435539 | -0.2496350550 | -0.461973375 | 0 |
| ## 462 | -0.126893494 | -0.0968471527 | 0.1651331015  | 5.491039837  | 0 |
| ## 463 | -0.134684699 | -0.1179508351 | -0.3591964548 | -0.435397423 | 1 |
| ## 464 | -0.134684699 | -0.0458113134 | -0.3200673834 | -0.500815151 | 1 |
| ## 465 | -0.134684699 | -0.1209440508 | -0.1635510980 | -0.247321456 | 1 |
| ## 466 | -0.134684699 | -0.1146855089 | -0.3591964548 | -0.461973375 | 0 |
| ## 467 | -0.134684699 | -0.1183741181 | -0.2965899406 | -0.392467039 | 0 |
| ## 468 | -0.134684699 | -0.0185397927 | -0.0305122553 | -0.218701200 | 1 |
| ## 469 | -0.134684699 | -0.1095456435 | -0.2887641263 | -0.406777167 | 0 |
| ## 470 | -0.134684699 | -0.0742619798 | 0.1651331015  | 0.280108973  | 0 |
| ## 471 | -0.134684699 | -0.0093787386 | 0.0790491445  | -0.280030320 | 1 |
| ## 472 | -0.134684699 | -0.1169530965 | -0.3357190120 | -0.396555647 | 0 |
| ## 473 | -0.134684699 | -0.0834835029 | 0.0399200731  | 0.028659582  | 0 |
| ## 474 | -0.134684699 | -0.0964843387 | -0.3044157549 | -0.464017679 | 1 |
| ## 475 | -0.134684699 | -0.1163484065 | -0.3591964548 | -0.517169583 | 0 |
| ## 476 | -0.095728677 | -0.0980262983 | 0.0633975160  | 5.640274028  | 0 |
| ## 477 | -0.134684699 | -0.0729921307 | 0.0790491445  | -0.271853104 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 478 | -0.134684699 | -0.0853882765 | -0.2496350550 | -0.016315106 | 0 |
| ## 479 | -0.134684699 | -0.1046174197 | -0.3513706405 | -0.513080975 | 0 |
| ## 480 | -0.033399041 | -0.0342617337 | 0.2512170585  | 1.933950899  | 1 |
| ## 481 | 0.309413952  | 0.0342798823  | 0.7051142863  | 4.315565044  | 1 |
| ## 482 | -0.134684699 | -0.1221836654 | -0.3591964548 | -0.513080975 | 0 |
| ## 483 | -0.134684699 | 0.0374847395  | 0.1416556587  | -0.318872096 | 1 |
| ## 484 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 485 | -0.134684699 | -0.0930073710 | -0.2026801693 | 0.525425451  | 0 |
| ## 486 | -0.033399041 | 0.0158368361  | 4.1562983806  | 2.189488897  | 1 |
| ## 487 | -0.134684699 | -0.0861139045 | -0.3357190120 | -0.527391102 | 0 |
| ## 488 | 0.418490814  | 0.0131157309  | 0.4155591582  | 1.083520440  | 1 |
| ## 489 | -0.134684699 | -0.0654335052 | -0.0931187695 | -0.053112577 | 1 |
| ## 490 | -0.134684699 | -0.1250559430 | -0.3513706405 | -0.466061983 | 0 |
| ## 491 | 0.075677820  | -0.0084112345 | 0.1573072872  | 0.042969710  | 0 |
| ## 492 | -0.134684699 | -0.0163326740 | -0.2339834264 | 0.680792554  | 0 |
| ## 493 | 0.075677820  | -0.1158948889 | -0.3122415691 | -0.253454368 | 1 |
| ## 494 | 0.180859080  | 1.7858855185  | 5.1501767932  | 1.032412840  | 1 |
| ## 495 | -0.134684699 | -0.1220324928 | -0.3435448262 | -0.419042991 | 0 |
| ## 496 | -0.134684699 | -0.1186764631 | -0.3122415691 | -0.472194895 | 0 |
| ## 497 | -0.134684699 | 4.0711301142  | 1.7929024702  | 0.024570974  | 1 |
| ## 498 | -0.134684699 | -0.1190392772 | -0.2731124978 | -0.351580960 | 0 |
| ## 499 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 500 | -0.134684699 | -0.0656149122 | -0.2731124978 | -0.365891087 | 0 |
| ## 501 | -0.134684699 | -0.0430297392 | 0.0086168160  | -0.331137920 | 1 |
| ## 502 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.515125279 | 0 |
| ## 503 | -0.045085848 | -0.1187671666 | -0.1792027265 | -0.036758145 | 1 |
| ## 504 | -0.134684699 | -0.0407621516 | 0.2199138014  | -0.024492321 | 1 |
| ## 505 | -0.017816633 | 33.1718382449 | 16.8575949451 | 3.959856150  | 1 |
| ## 506 | -0.134684699 | -0.1223348379 | -0.3200673834 | 0.059324142  | 0 |
| ## 507 | -0.134684699 | -0.0359246313 | -0.0148606268 | 1.782672404  | 1 |
| ## 508 | -0.134684699 | -0.0361362728 | -0.1870285408 | -0.437441727 | 1 |
| ## 509 | 1.567693464  | 0.1160339755  | 0.5955528865  | 1.367678694  | 1 |
| ## 510 | -0.134684699 | -0.1213975683 | -0.3670222690 | -0.531479710 | 0 |
| ## 511 | -0.134684699 | -0.1183741181 | -0.3513706405 | -0.372023999 | 0 |
| ## 512 | -0.134684699 | -0.0906188453 | -0.1713769122 | 0.490672283  | 0 |
| ## 513 | 0.909336692  | -0.0924026809 | -0.2965899406 | -0.355669567 | 0 |
| ## 514 | -0.134684699 | -0.0651916292 | -0.1244220266 | -0.208479680 | 1 |
| ## 515 | -0.134684699 | -0.1117225277 | -0.3513706405 | -0.372023999 | 0 |
| ## 516 | -0.134684699 | -0.0847231174 | -0.0931187695 | 0.680792554  | 0 |
| ## 517 | -0.134684699 | -0.0592051978 | 0.0868749588  | 0.020482366  | 1 |
| ## 518 | -0.134684699 | -0.1254792261 | -0.3513706405 | -0.251410064 | 0 |
| ## 519 | -0.134684699 | -0.0758946429 | 0.0164426303  | 3.700229544  | 0 |
| ## 520 | -0.134684699 | -0.0744131523 | -0.0383380696 | 1.240931847  | 0 |
| ## 521 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 522 | -0.076250666 | 0.0968048323  | 4.8449700366  | 2.214020545  | 1 |
| ## 523 | -0.134684699 | -0.0997194304 | -0.3435448262 | -0.464017679 | 1 |
| ## 524 | -0.134684699 | -0.0774366025 | -0.0226864410 | 1.680457204  | 0 |
| ## 525 | -0.134684699 | -0.0659777262 | -0.2418092407 | -0.314783488 | 1 |
| ## 526 | 0.067886616  | -0.1152297299 | -0.3122415691 | -0.255498672 | 1 |
| ## 527 | -0.017816633 | -0.0870209396 | -0.1792027265 | 0.320995052  | 1 |
| ## 528 | -0.134684699 | -0.0827881093 | -0.2026801693 | 0.081811486  | 0 |
| ## 529 | -0.134684699 | -0.0861139045 | -0.3044157549 | -0.445618943 | 0 |
| ## 530 | -0.134684699 | -0.0838463169 | -0.2731124978 | -0.337270832 | 0 |
| ## 531 | -0.134684699 | -0.1113294792 | -0.3513706405 | -0.517169583 | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 532 | -0.134684699 | -0.1113294792 | -0.3591964548 | -0.517169583 | 0 |
| ## 533 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.545789838 | 0 |
| ## 534 | -0.134684699 | -0.0409133241 | 0.0399200731  | 1.101919176  | 0 |
| ## 535 | -0.134684699 | -0.0709966535 | -0.3513706405 | -0.517169583 | 0 |
| ## 536 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.521258190 | 1 |
| ## 537 | -0.134684699 | -0.0407621516 | -0.2965899406 | -0.490593631 | 1 |
| ## 538 | -0.134684699 | -0.1060384413 | -0.3122415691 | -0.167593601 | 1 |
| ## 539 | -0.134684699 | -0.1252978191 | -0.3435448262 | -0.427220207 | 1 |
| ## 540 | 2.132555783  | -0.0918886944 | -0.1165962123 | 0.047058318  | 1 |
| ## 541 | -0.134684699 | -0.0609285644 | -0.3357190120 | -0.506948063 | 0 |
| ## 542 | -0.134684699 | -0.0646171736 | -0.1400736551 | 0.443653292  | 0 |
| ## 543 | -0.076250666 | 0.0968048323  | 4.8449700366  | 2.214020545  | 1 |
| ## 544 | -0.064563859 | -0.0685778934 | 0.1025265873  | 0.308729228  | 0 |
| ## 545 | -0.134684699 | -0.0440577123 | -0.0226864410 | -0.253454368 | 1 |
| ## 546 | -0.134684699 | -0.0645869391 | -0.0461638839 | 0.811628009  | 0 |
| ## 547 | -0.134684699 | -0.0955773036 | -0.3513706405 | -0.476283503 | 0 |
| ## 548 | -0.134684699 | -0.1195532637 | -0.2965899406 | -0.439486031 | 0 |
| ## 549 | -0.134684699 | -0.1052523443 | -0.2809383120 | 0.517248235  | 1 |
| ## 550 | -0.134684699 | -0.0916165839 | -0.1948543550 | -0.443574639 | 0 |
| ## 551 | -0.134684699 | -0.0338082161 | -0.1948543550 | -0.435397423 | 1 |
| ## 552 | -0.134684699 | -0.1163484065 | -0.3357190120 | -0.480372111 | 0 |
| ## 553 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 554 | -0.134684699 | 0.0096085287  | 0.0477458874  | 0.008216542  | 1 |
| ## 555 | -0.134684699 | -0.1005962310 | -0.2965899406 | -0.353625264 | 1 |
| ## 556 | -0.134684699 | -0.1190392772 | -0.3513706405 | -0.498770847 | 0 |
| ## 557 | 0.788573023  | -0.0983588778 | -0.3357190120 | -0.457884767 | 1 |
| ## 558 | -0.134684699 | -0.1228488244 | -0.3670222690 | -0.511036671 | 0 |
| ## 559 | -0.134684699 | 17.6464214915 | 8.8204836871  | 1.860355955  | 1 |
| ## 560 | -0.134684699 | -0.0283357713 | -0.2418092407 | 0.065457054  | 0 |
| ## 561 | 1.657292315  | 0.0287772029  | -0.1009445838 | 1.938039507  | 1 |
| ## 562 | 0.995039940  | -0.1096363470 | -0.3357190120 | -0.484460719 | 0 |
| ## 563 | -0.134684699 | -0.0991752094 | -0.3044157549 | 0.259665933  | 0 |
| ## 564 | -0.134684699 | -0.0911630663 | -0.3122415691 | -0.504903759 | 0 |
| ## 565 | 0.106842638  | -0.0747457318 | -0.0931187695 | 0.310773532  | 0 |
| ## 566 | 0.165276671  | -0.0055087223 | 0.0633975160  | -0.167593601 | 1 |
| ## 567 | 0.274353533  | -0.0844510069 | -0.2965899406 | -0.406777167 | 0 |
| ## 568 | -0.134684699 | -0.1239977355 | -0.3513706405 | -0.280030320 | 0 |
| ## 569 | -0.134684699 | -0.1031359291 | -0.2731124978 | -0.421087295 | 0 |
| ## 570 | 0.153589864  | -0.0314499250 | -0.1713769122 | 0.051146926  | 0 |
| ## 571 | -0.134684699 | -0.1095456435 | -0.2887641263 | -0.406777167 | 0 |
| ## 572 | -0.134684699 | -0.0386457365 | -0.0148606268 | 0.625596347  | 1 |
| ## 573 | -0.134684699 | -0.1072780559 | -0.3435448262 | -0.511036671 | 0 |
| ## 574 | 0.153589864  | -0.0326593051 | -0.1713769122 | 0.036836798  | 0 |
| ## 575 | -0.134684699 | -0.1125690937 | -0.3200673834 | -0.494682239 | 0 |
| ## 576 | -0.134684699 | -0.0881698507 | -0.2026801693 | 0.590843179  | 0 |
| ## 577 | -0.134684699 | -0.1254187571 | -0.3591964548 | -0.437441727 | 0 |
| ## 578 | -0.134684699 | -0.1047383577 | 0.0086168160  | -0.247321456 | 0 |
| ## 579 | -0.134684699 | 0.0213697499  | 0.1025265873  | -0.325005008 | 1 |
| ## 580 | 0.753512604  | -0.0709966535 | -0.2965899406 | -0.406777167 | 1 |
| ## 581 | 1.287210105  | -0.1258118056 | -0.3044157549 | -0.314783488 | 0 |
| ## 582 | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.537612622 | 0 |
| ## 583 | -0.134684699 | -0.0386155020 | -0.1635510980 | -0.314783488 | 1 |
| ## 584 | -0.134684699 | -0.0416389521 | -0.1244220266 | -0.263675888 | 0 |
| ## 585 | -0.099624279 | -0.0128254718 | 0.3529526440  | 2.130204081  | 1 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 586 | -0.134684699 | -0.1174066140 | -0.3278931977 | -0.374068303 | 0 |
| ## 587 | -0.134684699 | 0.0247257796  | -0.1322478409 | -0.018359410 | 1 |
| ## 588 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.474239199 | 0 |
| ## 589 | -0.134684699 | -0.1012311555 | -0.2652866835 | -0.474239199 | 1 |
| ## 590 | -0.134684699 | 0.0850436110  | -0.1478994694 | -0.030625233 | 1 |
| ## 591 | -0.134684699 | -0.0609285644 | -0.3044157549 | -0.486505023 | 0 |
| ## 592 | -0.134684699 | -0.1169228620 | -0.3513706405 | -0.466061983 | 0 |
| ## 593 | -0.134684699 | -0.1245419565 | -0.3435448262 | -0.394511343 | 0 |
| ## 594 | -0.134684699 | -0.1178601316 | -0.3591964548 | -0.488549327 | 0 |
| ## 595 | -0.134684699 | -0.1018963145 | -0.2965899406 | -0.361802479 | 0 |
| ## 596 | 0.289935941  | 0.0527229285  | 0.1338298444  | 0.394589996  | 1 |
| ## 597 | 5.330845192  | -0.0808531012 | -0.2574608692 | -0.312739184 | 0 |
| ## 598 | -0.134684699 | -0.0679732033 | 0.0868749588  | -0.167593601 | 1 |
| ## 599 | -0.134684699 | -0.1253280536 | -0.3513706405 | -0.173726513 | 0 |
| ## 600 | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.527391102 | 0 |
| ## 601 | -0.134684699 | -0.0091066280 | 0.7051142863  | -0.114441697 | 1 |
| ## 602 | -0.134684699 | -0.0749876078 | -0.0461638839 | -0.190080944 | 1 |
| ## 603 | -0.134684699 | -0.1177391936 | -0.3513706405 | -0.482416415 | 0 |
| ## 604 | -0.134684699 | -0.1185252906 | -0.3591964548 | -0.486505023 | 0 |
| ## 605 | -0.134684699 | -0.0516768068 | 0.0868749588  | 0.092033006  | 1 |
| ## 606 | -0.134684699 | -0.1023195976 | -0.2965899406 | -0.322960704 | 0 |
| ## 607 | -0.134684699 | -0.1198556087 | -0.3591964548 | -0.511036671 | 0 |
| ## 608 | -0.134684699 | 0.0060710919  | 0.1651331015  | 0.609241915  | 1 |
| ## 609 | -0.134684699 | -0.0349571272 | -0.0148606268 | 0.609241915  | 1 |
| ## 610 | -0.134684699 | -0.1094851745 | -0.3513706405 | -0.431308815 | 0 |
| ## 611 | -0.134684699 | -0.0863557805 | -0.2965899406 | -0.196213856 | 1 |
| ## 612 | -0.134684699 | -0.1061291448 | -0.2887641263 | 0.406855820  | 1 |
| ## 613 | -0.134684699 | -0.1252978191 | -0.3435448262 | -0.427220207 | 1 |
| ## 614 | -0.134684699 | -0.1072780559 | -0.3200673834 | -0.474239199 | 0 |
| ## 615 | -0.134684699 | -0.0392806610 | -0.0148606268 | 0.627640651  | 1 |
| ## 616 | -0.134684699 | -0.0330523536 | -0.1244220266 | -0.138973345 | 0 |
| ## 617 | -0.134684699 | -0.1005659965 | -0.2418092407 | 0.374146956  | 0 |
| ## 618 | 0.839215852  | -0.0241029410 | -0.1400736551 | -0.277986016 | 1 |
| ## 619 | -0.134684699 | -0.0887443062 | -0.2652866835 | -0.261631584 | 1 |
| ## 620 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 621 | -0.134684699 | -0.0945190961 | -0.3513706405 | -0.506948063 | 0 |
| ## 622 | -0.134684699 | -0.1177391936 | -0.3200673834 | -0.482416415 | 0 |
| ## 623 | -0.134684699 | -0.1045569507 | -0.3044157549 | -0.265720192 | 0 |
| ## 624 | 0.235397511  | -0.0358339278 | 0.2668686870  | 0.907710297  | 1 |
| ## 625 | -0.134684699 | -0.0105276496 | 0.3529526440  | -0.200302464 | 1 |
| ## 626 | -0.134684699 | 0.1427008063  | 0.6346819579  | 0.049102622  | 1 |
| ## 627 | -0.134684699 | -0.1012311555 | -0.3591964548 | -0.515125279 | 0 |
| ## 628 | -0.134684699 | 0.3825208758  | 1.1746631427  | 0.224912765  | 0 |
| ## 629 | -0.134684699 | -0.1046174197 | -0.2183317979 | -0.339315136 | 0 |
| ## 630 | -0.134684699 | -0.0858720285 | -0.2574608692 | -0.255498672 | 0 |
| ## 631 | -0.134684699 | -0.1199765467 | -0.3591964548 | -0.488549327 | 0 |
| ## 632 | -0.134684699 | -0.1125690937 | -0.3435448262 | -0.521258190 | 0 |
| ## 633 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 634 | -0.134684699 | -0.0597494188 | 0.1964363586  | 0.155406429  | 0 |
| ## 635 | -0.064563859 | -0.0685778934 | 0.1025265873  | 0.308729228  | 0 |
| ## 636 | -0.134684699 | -0.0044807492 | 0.0399200731  | -0.335226528 | 0 |
| ## 637 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.543745534 | 0 |
| ## 638 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 639 | -0.134684699 | -0.1294097113 | -0.3748480833 | -0.451751855 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 640 | -0.134684699 | -0.1039824952 | -0.3435448262 | -0.504903759 | 0 |
| ## 641 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 642 | -0.134684699 | -0.1062803173 | -0.3278931977 | -0.502859455 | 0 |
| ## 643 | -0.134684699 | -0.1283515038 | -0.3670222690 | -0.482416415 | 1 |
| ## 644 | -0.134684699 | -0.1093340020 | -0.0539896981 | 0.985393848  | 1 |
| ## 645 | -0.134684699 | -0.0958191796 | -0.2496350550 | -0.374068303 | 1 |
| ## 646 | -0.134684699 | -0.0749271388 | -0.2731124978 | -0.049023969 | 0 |
| ## 647 | -0.134684699 | -0.0866883601 | -0.3044157549 | -0.273897408 | 1 |
| ## 648 | 0.200337091  | 1.5476981121  | 4.5867181656  | 0.954729289  | 1 |
| ## 649 | -0.134684699 | -0.1213975683 | -0.3670222690 | -0.498770847 | 0 |
| ## 650 | -0.134684699 | -0.1276863447 | -0.3748480833 | -0.529435406 | 0 |
| ## 651 | -0.134684699 | -0.0690011764 | -0.1087703980 | -0.265720192 | 1 |
| ## 652 | -0.134684699 | -0.1094851745 | -0.3513706405 | -0.508992367 | 0 |
| ## 653 | -0.134684699 | -0.1031359291 | -0.2731124978 | -0.421087295 | 0 |
| ## 654 | -0.134684699 | 0.0499413543  | 0.4312107868  | 0.353703916  | 1 |
| ## 655 | -0.134684699 | -0.1012311555 | -0.2809383120 | -0.183948033 | 1 |
| ## 656 | -0.134684699 | -0.1098782231 | -0.3591964548 | -0.523302494 | 0 |
| ## 657 | -0.134684699 | -0.1029847566 | -0.3278931977 | -0.408821471 | 0 |
| ## 658 | -0.068459461 | -0.0576632382 | -0.1165962123 | 0.472273548  | 0 |
| ## 659 | 0.091260229  | 0.0192533348  | 0.0633975160  | 0.320995052  | 1 |
| ## 660 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 661 | 0.383430394  | 0.0375452085  | 5.3927770357  | 4.221527061  | 1 |
| ## 662 | -0.134684699 | -0.0756225323 | 0.0790491445  | -0.053112577 | 0 |
| ## 663 | -0.134684699 | 0.0357009039  | 1.7694250274  | 0.813672313  | 1 |
| ## 664 | -0.134684699 | -0.1030149911 | -0.2965899406 | -0.480372111 | 1 |
| ## 665 | -0.134684699 | -0.1057360963 | -0.2887641263 | -0.343403744 | 0 |
| ## 666 | -0.134684699 | -0.0966959802 | -0.3044157549 | -0.459929071 | 0 |
| ## 667 | 0.044513003  | -0.0065064609 | 0.6425077721  | 1.498514149  | 1 |
| ## 668 | -0.134684699 | -0.0947307376 | -0.2183317979 | -0.316827792 | 0 |
| ## 669 | -0.134684699 | -0.1072780559 | -0.2965899406 | -0.419042991 | 1 |
| ## 670 | -0.134684699 | -0.0751690148 | -0.0226864410 | -0.378156911 | 0 |
| ## 671 | -0.134684699 | -0.0996589614 | -0.2261576121 | -0.468106287 | 0 |
| ## 672 | 0.056199809  | -0.0469904590 | 0.1494814729  | 0.887267257  | 1 |
| ## 673 | -0.134684699 | -0.1113294792 | -0.3670222690 | -0.537612622 | 0 |
| ## 674 | 0.044513003  | -0.0099229596 | 0.6425077721  | 1.453539462  | 1 |
| ## 675 | -0.134684699 | -0.0592959013 | -0.2731124978 | -0.333182224 | 0 |
| ## 676 | 0.180859080  | 0.2966548902  | 0.7677208005  | 0.226957069  | 1 |
| ## 677 | 0.173067875  | 0.3443951688  | 0.7598949862  | 0.239222893  | 1 |
| ## 678 | 0.188650284  | 0.0285957959  | 0.6425077721  | 1.420830598  | 1 |
| ## 679 | -0.064563859 | 0.1317256821  | 0.7677208005  | 2.547242095  | 1 |
| ## 680 | -0.134684699 | -0.0995682579 | -0.2183317979 | -0.320916400 | 1 |
| ## 681 | -0.134684699 | -0.1083967325 | -0.3200673834 | -0.410865775 | 0 |
| ## 682 | -0.134684699 | -0.0654032707 | -0.1400736551 | 0.435476076  | 0 |
| ## 683 | 0.017243787  | -0.0510721168 | 0.1573072872  | 0.132919086  | 0 |
| ## 684 | 0.788573023  | -0.0983588778 | -0.3357190120 | -0.457884767 | 1 |
| ## 685 | -0.134684699 | -0.0898932173 | -0.2652866835 | -0.275941712 | 1 |
| ## 686 | -0.134684699 | -0.1111783066 | -0.2887641263 | -0.329093616 | 0 |
| ## 687 | -0.134684699 | -0.0903165003 | -0.1557252837 | -0.374068303 | 0 |
| ## 688 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 689 | -0.134684699 | -0.0963936352 | -0.3044157549 | -0.437441727 | 0 |
| ## 690 | -0.134684699 | -0.0996589614 | -0.2261576121 | -0.468106287 | 0 |
| ## 691 | -0.134684699 | -0.0934911230 | -0.2261576121 | 0.116564654  | 1 |
| ## 692 | -0.134684699 | -0.0764993329 | -0.2418092407 | -0.421087295 | 1 |
| ## 693 | -0.134684699 | -0.0800367696 | -0.2339834264 | -0.177815121 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 694 | -0.134684699 | -0.0256449006 | -0.1948543550 | -0.437441727 | 1 |
| ## 695 | -0.134684699 | -0.0293032754 | 1.2372696569  | 0.490672283  | 0 |
| ## 696 | -0.134684699 | -0.1185252906 | -0.3513706405 | -0.384289823 | 0 |
| ## 697 | -0.134684699 | -0.1093642365 | -0.2652866835 | -0.310694880 | 0 |
| ## 698 | -0.134684699 | -0.1094851745 | -0.3513706405 | -0.431308815 | 0 |
| ## 699 | -0.134684699 | -0.0754108908 | 0.1416556587  | -0.226878416 | 0 |
| ## 700 | -0.134684699 | -0.1123574522 | -0.3044157549 | 0.079767182  | 0 |
| ## 701 | -0.134684699 | -0.1096968160 | -0.3044157549 | -0.459929071 | 0 |
| ## 702 | 0.071782218  | -0.0953354276 | 0.0007910018  | -0.134884737 | 1 |
| ## 703 | -0.134684699 | -0.0629542760 | -0.1478994694 | -0.147150561 | 0 |
| ## 704 | -0.134684699 | -0.0508604752 | 0.2512170585  | -0.210523984 | 1 |
| ## 705 | -0.134684699 | 0.2363672933  | -0.1713769122 | -0.386334127 | 1 |
| ## 706 | -0.134684699 | -0.1175275521 | -0.3591964548 | -0.470150591 | 0 |
| ## 707 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.508992367 | 1 |
| ## 708 | -0.134684699 | -0.1099689266 | -0.2731124978 | -0.390422735 | 0 |
| ## 709 | -0.134684699 | -0.0883512577 | 0.2042621729  | -0.141017649 | 0 |
| ## 710 | 1.170342039  | 0.0859808806  | 2.1607157410  | 2.232419281  | 1 |
| ## 711 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.515125279 | 0 |
| ## 712 | -0.134684699 | -0.0453275614 | 0.5564238151  | 0.026615278  | 1 |
| ## 713 | -0.134684699 | 0.0024127172  | -0.2261576121 | 0.073634270  | 1 |
| ## 714 | -0.134684699 | 0.0247257796  | -0.1322478409 | -0.018359410 | 1 |
| ## 715 | -0.134684699 | -0.0270356877 | 0.0399200731  | 1.355412870  | 0 |
| ## 716 | -0.134684699 | -0.0609285644 | -0.3044157549 | -0.486505023 | 0 |
| ## 717 | -0.134684699 | -0.0174513506 | -0.1870285408 | -0.206435376 | 0 |
| ## 718 | -0.134684699 | 0.0442875024  | 3.4754525388  | 2.432761072  | 1 |
| ## 719 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 720 | -0.134684699 | -0.1258118056 | -0.3591964548 | -0.508992367 | 0 |
| ## 721 | -0.134684699 | -0.1128109697 | -0.3044157549 | -0.435397423 | 0 |
| ## 722 | -0.134684699 | -0.1169228620 | -0.3513706405 | -0.466061983 | 0 |
| ## 723 | -0.134684699 | -0.1059779723 | -0.3044157549 | -0.306606272 | 0 |
| ## 724 | -0.134684699 | -0.0824857643 | -0.3044157549 | -0.392467039 | 0 |
| ## 725 | 0.200337091  | 1.5476981121  | 4.5867181656  | 0.954729289  | 1 |
| ## 726 | -0.134684699 | -0.1092432985 | -0.3122415691 | -0.427220207 | 0 |
| ## 727 | -0.134684699 | -0.1012311555 | -0.2809383120 | -0.183948033 | 1 |
| ## 728 | -0.134684699 | -0.0981774708 | -0.3044157549 | -0.251410064 | 1 |
| ## 729 | 1.228776072  | 0.0883694063  | 0.1494814729  | 1.261374887  | 1 |
| ## 730 | -0.134684699 | -0.1152599644 | -0.3278931977 | -0.419042991 | 0 |
| ## 731 | -0.134684699 | -0.1220324928 | -0.3670222690 | -0.504903759 | 1 |
| ## 732 | -0.134684699 | -0.1226371829 | -0.3591964548 | -0.376112607 | 0 |
| ## 733 | -0.134684699 | -0.0263705287 | -0.2339834264 | -0.355669567 | 1 |
| ## 734 | -0.134684699 | -0.0079274825 | -0.1322478409 | -0.308650576 | 1 |
| ## 735 | 0.952188316  | -0.0199305797 | 0.7442433577  | 1.829691395  | 1 |
| ## 736 | -0.134684699 | -0.1135668323 | -0.2731124978 | -0.300473360 | 0 |
| ## 737 | -0.134684699 | 0.0285957959  | 0.1025265873  | -0.329093616 | 1 |
| ## 738 | -0.134684699 | -0.1307702639 | -0.3670222690 | -0.372023999 | 1 |
| ## 739 | -0.134684699 | -0.1069152419 | -0.3122415691 | -0.429264511 | 0 |
| ## 740 | -0.134684699 | -0.0441484158 | -0.3278931977 | -0.476283503 | 0 |
| ## 741 | 26.729388090 | -0.0969378562 | -0.3278931977 | -0.425175903 | 0 |
| ## 742 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 743 | 0.262666726  | -0.0799158316 | 0.1807847300  | 0.204469725  | 1 |
| ## 744 | -0.134684699 | -0.1291678353 | -0.3748480833 | -0.490593631 | 0 |
| ## 745 | -0.134684699 | 0.1583320438  | 0.5799012579  | 0.339393788  | 1 |
| ## 746 | -0.134684699 | -0.0505278957 | -0.1713769122 | -0.314783488 | 0 |
| ## 747 | -0.134684699 | -0.0926143224 | -0.2809383120 | -0.384289823 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 748 | -0.134684699 | -0.0395225370 | 0.0320942589  | -0.151239169 | 1 |
| ## 749 | -0.134684699 | -0.1226674174 | -0.3513706405 | -0.484460719 | 0 |
| ## 750 | -0.134684699 | -0.0589028528 | 0.0868749588  | -0.165549297 | 1 |
| ## 751 | 0.426282019  | 0.0131459654  | 1.1198824428  | 6.014381658  | 1 |
| ## 752 | -0.134684699 | -0.1106038511 | -0.3044157549 | -0.402688559 | 1 |
| ## 753 | -0.134684699 | -0.1120853417 | -0.3122415691 | -0.369979695 | 0 |
| ## 754 | -0.134684699 | -0.0437553673 | -0.1322478409 | 0.265798845  | 0 |
| ## 755 | -0.134684699 | -0.0919491634 | -0.3278931977 | -0.486505023 | 0 |
| ## 756 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## 757 | -0.134684699 | -0.1042546057 | -0.2731124978 | -0.431308815 | 0 |
| ## 758 | -0.134684699 | -0.1108759616 | -0.3122415691 | -0.472194895 | 0 |
| ## 759 | -0.134684699 | -0.0876256296 | -0.2731124978 | -0.447663247 | 0 |
| ## 760 | -0.134684699 | -0.0902257968 | 0.1807847300  | -0.083777137 | 0 |
| ## 761 | -0.134684699 | -0.0609285644 | -0.2965899406 | -0.486505023 | 1 |
| ## 762 | -0.134684699 | -0.1165298135 | -0.3122415691 | -0.263675888 | 1 |
| ## 763 | -0.134684699 | -0.0450856854 | -0.1948543550 | -0.382245519 | 1 |
| ## 764 | -0.134684699 | -0.1209742853 | -0.3670222690 | -0.484460719 | 0 |
| ## 765 | -0.134684699 | -0.1036801502 | -0.2887641263 | -0.206435376 | 0 |
| ## 766 | -0.134684699 | -0.1268397787 | -0.3670222690 | -0.517169583 | 0 |
| ## 767 | -0.134684699 | -0.0926143224 | -0.2809383120 | -0.384289823 | 0 |
| ## 768 | 0.621062129  | -0.0810949772 | -0.2887641263 | -0.335226528 | 0 |
| ## 769 | -0.134684699 | -0.0672173408 | -0.2965899406 | -0.343403744 | 1 |
| ## 770 | 0.410699610  | -0.0137929758 | 0.6972884720  | 0.012305150  | 1 |
| ## 771 | -0.134684699 | -0.1079734494 | -0.3435448262 | -0.449707551 | 0 |
| ## 772 | -0.134684699 | -0.1169530965 | -0.3200673834 | -0.472194895 | 0 |
| ## 773 | -0.134684699 | -0.1094851745 | -0.3513706405 | -0.431308815 | 0 |
| ## 774 | -0.134684699 | -0.0764388639 | -0.2105059836 | -0.322960704 | 1 |
| ## 775 | -0.134684699 | -0.0268240462 | -0.1713769122 | 0.045014014  | 0 |
| ## 776 | 0.293831544  | -0.0540653325 | 0.0320942589  | 1.453539462  | 1 |
| ## 777 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.543745534 | 0 |
| ## 778 | -0.134684699 | -0.0950633171 | -0.3200673834 | -0.128751825 | 0 |
| ## 779 | -0.134684699 | -0.0709966535 | -0.2574608692 | -0.443574639 | 0 |
| ## 780 | 0.106842638  | -0.0732340067 | -0.0148606268 | 0.104298830  | 0 |
| ## 781 | -0.134684699 | -0.1022288941 | -0.2496350550 | -0.302517664 | 0 |
| ## 782 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.523302494 | 0 |
| ## 783 | -0.134684699 | -0.0907397833 | -0.3122415691 | -0.437441727 | 0 |
| ## 784 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 785 | -0.134684699 | -0.1242698460 | -0.3591964548 | -0.494682239 | 0 |
| ## 786 | -0.134684699 | -0.0619867720 | -0.2652866835 | 0.038881102  | 1 |
| ## 787 | -0.134684699 | 0.0279911059  | 0.3138235727  | 0.106343134  | 1 |
| ## 788 | -0.134684699 | -0.1133249563 | -0.3591964548 | -0.531479710 | 0 |
| ## 789 | 0.180859080  | -0.0908607213 | -0.2887641263 | -0.241188544 | 0 |
| ## 790 | -0.134684699 | -0.0472021005 | 0.0633975160  | 0.179938077  | 1 |
| ## 791 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## 792 | 0.009452583  | -0.1074594629 | -0.3122415691 | -0.173726513 | 0 |
| ## 793 | -0.134684699 | -0.0854487455 | -0.2809383120 | -0.320916400 | 1 |
| ## 794 | -0.134684699 | -0.0373456529 | 0.0164426303  | 0.789140666  | 0 |
| ## 795 | -0.134684699 | -0.0654637397 | 0.0399200731  | -0.157372081 | 0 |
| ## 796 | -0.134684699 | -0.1246024255 | -0.3278931977 | -0.382245519 | 1 |
| ## 797 | -0.134684699 | -0.0650706912 | -0.1400736551 | 0.484539371  | 0 |
| ## 798 | -0.134684699 | -0.1161669995 | -0.3044157549 | -0.316827792 | 0 |
| ## 799 | -0.134684699 | -0.1249954740 | -0.3670222690 | -0.478327807 | 0 |
| ## 800 | -0.134684699 | -0.0558794026 | -0.2261576121 | -0.461973375 | 0 |
| ## 801 | -0.134684699 | -0.0901350933 | -0.2965899406 | -0.126707521 | 0 |



|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 802 | -0.134684699 | -0.0810949772 | -0.3513706405 | -0.515125279 | 0 |
| ## 803 | 2.888302611  | 0.0659958748  | -0.0539896981 | 0.175849469  | 0 |
| ## 804 | -0.134684699 | -0.0973006702 | -0.2731124978 | -0.447663247 | 0 |
| ## 805 | -0.134684699 | -0.0926747914 | -0.2183317979 | -0.300473360 | 1 |
| ## 806 | -0.134684699 | 0.0180137202  | 0.0320942589  | 0.995615368  | 1 |
| ## 807 | 0.515880869  | -0.0815182602 | -0.3044157549 | -0.423131599 | 0 |
| ## 808 | 0.060095411  | -0.1003241204 | -0.1400736551 | -0.008137890 | 1 |
| ## 809 | -0.134684699 | -0.0379503429 | 0.2903461299  | -0.012226498 | 0 |
| ## 810 | -0.134684699 | -0.1141110533 | -0.3591964548 | -0.396555647 | 0 |
| ## 811 | -0.134684699 | -0.1055546893 | -0.2731124978 | -0.468106287 | 0 |
| ## 812 | -0.134684699 | 0.0008102886  | 0.1494814729  | -0.284118928 | 0 |
| ## 813 | -0.134684699 | -0.1046174197 | -0.3513706405 | -0.513080975 | 0 |
| ## 814 | -0.134684699 | -0.0210492563 | -0.1478994694 | -0.329093616 | 1 |
| ## 815 | -0.134684699 | -0.0609285644 | -0.3044157549 | -0.486505023 | 0 |
| ## 816 | -0.134684699 | -0.0679732033 | -0.3044157549 | -0.484460719 | 0 |
| ## 817 | -0.134684699 | -0.0041784042 | -0.1087703980 | -0.345448048 | 1 |
| ## 818 | -0.134684699 | -0.0751690148 | -0.2731124978 | -0.378156911 | 0 |
| ## 819 | -0.134684699 | -0.1097572851 | -0.2965899406 | -0.298429056 | 0 |
| ## 820 | -0.134684699 | -0.1287445523 | -0.3670222690 | -0.498770847 | 0 |
| ## 821 | -0.134684699 | -0.0872023466 | -0.2731124978 | -0.124663217 | 0 |
| ## 822 | -0.134684699 | -0.0070809164 | 0.4468624153  | -0.181903729 | 1 |
| ## 823 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 824 | -0.134684699 | -0.0180862751 | -0.3278931977 | -0.508992367 | 0 |
| ## 825 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 826 | -0.134684699 | -0.0210492563 | -0.1478994694 | -0.329093616 | 1 |
| ## 827 | -0.134684699 | -0.1255396951 | -0.3513706405 | -0.410865775 | 0 |
| ## 828 | -0.134684699 | -0.0627728690 | -0.2105059836 | -0.474239199 | 1 |
| ## 829 | -0.134684699 | -0.1096968160 | -0.3044157549 | -0.459929071 | 0 |
| ## 830 | -0.134684699 | -0.1058267998 | -0.2887641263 | -0.298429056 | 0 |
| ## 831 | -0.134684699 | -0.0698175080 | -0.2887641263 | -0.230967024 | 0 |
| ## 832 | -0.134684699 | -0.0386457365 | -0.0148606268 | 0.625596347  | 1 |
| ## 833 | -0.134684699 | -0.1113294792 | -0.3591964548 | -0.496726543 | 0 |
| ## 834 | -0.134684699 | -0.1201881882 | -0.3044157549 | -0.202346768 | 0 |
| ## 835 | -0.134684699 | -0.0280636608 | 1.1120566285  | 0.075678574  | 1 |
| ## 836 | -0.134684699 | -0.1255699296 | -0.3435448262 | -0.435397423 | 0 |
| ## 837 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 838 | -0.134684699 | -0.0936725300 | -0.2026801693 | 0.924064729  | 0 |
| ## 839 | -0.134684699 | -0.1012311555 | -0.3591964548 | -0.535568318 | 0 |
| ## 840 | 0.340578770  | -0.0921003359 | -0.2261576121 | -0.345448048 | 1 |
| ## 841 | -0.134684699 | -0.0757737049 | -0.3122415691 | -0.437441727 | 1 |
| ## 842 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 843 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 844 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 845 | -0.134684699 | -0.1235139834 | -0.3591964548 | -0.155327777 | 0 |
| ## 846 | -0.134684699 | -0.1045569507 | -0.2887641263 | -0.161460689 | 0 |
| ## 847 | -0.134684699 | -0.0160303290 | -0.1948543550 | -0.439486031 | 1 |
| ## 848 | -0.134684699 | -0.0169978331 | 0.7990240576  | 0.049102622  | 1 |
| ## 849 | -0.134684699 | -0.0634380281 | -0.3044157549 | -0.468106287 | 0 |
| ## 850 | -0.134684699 | -0.1189485736 | -0.2887641263 | -0.310694880 | 0 |
| ## 851 | -0.134684699 | -0.1079734494 | -0.2965899406 | -0.416998687 | 1 |
| ## 852 | -0.134684699 | -0.0963634007 | -0.1792027265 | 0.627640651  | 0 |
| ## 853 | -0.134684699 | -0.1133249563 | -0.3200673834 | -0.498770847 | 0 |
| ## 854 | -0.134684699 | -0.1154111369 | -0.3357190120 | -0.247321456 | 0 |
| ## 855 | -0.134684699 | -0.1199160777 | -0.3513706405 | -0.451751855 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 856 | -0.134684699 | -0.0993566164 | -0.2965899406 | -0.345448048 | 1 |
| ## 857 | -0.134684699 | -0.1233628109 | -0.3591964548 | -0.441530335 | 0 |
| ## 858 | 0.169172273  | 0.2942361301  | 0.7598949862  | 0.222868461  | 1 |
| ## 859 | -0.134684699 | -0.0889861822 | 0.0007910018  | 0.204469725  | 1 |
| ## 860 | -0.134684699 | -0.0286683508 | -0.2652866835 | -0.502859455 | 0 |
| ## 861 | -0.076250666 | 0.0899416004  | 4.8449700366  | 2.242640801  | 1 |
| ## 862 | -0.134684699 | -0.0908002523 | -0.2183317979 | -0.284118928 | 1 |
| ## 863 | -0.134684699 | -0.1012311555 | -0.3357190120 | -0.490593631 | 0 |
| ## 864 | -0.134684699 | -0.1268397787 | -0.3670222690 | -0.517169583 | 0 |
| ## 865 | -0.134684699 | -0.1080339184 | -0.2339834264 | -0.224834112 | 1 |
| ## 866 | -0.134684699 | -0.0148511834 | -0.2965899406 | -0.478327807 | 1 |
| ## 867 | -0.134684699 | -0.1072780559 | -0.3122415691 | -0.382245519 | 0 |
| ## 868 | -0.134684699 | -0.1170740345 | -0.3278931977 | -0.421087295 | 0 |
| ## 869 | -0.134684699 | -0.1113294792 | -0.3357190120 | -0.496726543 | 0 |
| ## 870 | 0.025034992  | -0.1045569507 | -0.2496350550 | -0.087865745 | 1 |
| ## 871 | 0.118529445  | -0.0721455646 | -0.3044157549 | -0.226878416 | 0 |
| ## 872 | -0.134684699 | -0.0847231174 | -0.0931187695 | 0.680792554  | 0 |
| ## 873 | 0.671704957  | -0.0834532684 | -0.0774671410 | -0.277986016 | 0 |
| ## 874 | -0.048981450 | -0.1159251234 | -0.2261576121 | -0.222789808 | 0 |
| ## 875 | -0.087937472 | 0.0074316445  | 0.5407721866  | 2.643324382  | 1 |
| ## 876 | -0.134684699 | -0.1290166628 | -0.3670222690 | -0.439486031 | 0 |
| ## 877 | -0.134684699 | -0.1062803173 | -0.2496350550 | 1.363590086  | 0 |
| ## 878 | 3.768708708  | 0.0786943656  | 0.1886105443  | 0.460007724  | 1 |
| ## 879 | 0.574314902  | -0.0766505054 | 0.5564238151  | 0.930197641  | 0 |
| ## 880 | -0.006129826 | 0.2701392320  | 4.9701830649  | 2.547242095  | 1 |
| ## 881 | -0.134684699 | -0.0828788128 | -0.2887641263 | -0.398599951 | 0 |
| ## 882 | -0.033399041 | 0.0307122110  | 0.7755466148  | 1.377900214  | 1 |
| ## 883 | -0.134684699 | -0.1072780559 | -0.2965899406 | -0.419042991 | 1 |
| ## 884 | -0.134684699 | -0.0902560313 | -0.3513706405 | -0.441530335 | 0 |
| ## 885 | -0.134684699 | -0.0359246313 | -0.0148606268 | 1.782672404  | 1 |
| ## 886 | -0.134684699 | -0.0928561985 | -0.2965899406 | -0.464017679 | 0 |
| ## 887 | -0.134684699 | -0.1304981534 | -0.3748480833 | -0.482416415 | 0 |
| ## 888 | -0.134684699 | -0.1124481557 | -0.3357190120 | -0.457884767 | 0 |
| ## 889 | -0.134684699 | -0.0659172572 | -0.2731124978 | 0.145184909  | 1 |
| ## 890 | 0.176963478  | 0.0374242705  | 0.6425077721  | 1.404476166  | 1 |
| ## 891 | -0.134684699 | -0.1075804009 | -0.3513706405 | -0.320916400 | 0 |
| ## 892 | -0.134684699 | -0.1143831638 | -0.3591964548 | -0.474239199 | 0 |
| ## 893 | -0.134684699 | -0.1012311555 | -0.3513706405 | -0.531479710 | 0 |
| ## 894 | -0.134684699 | -0.0589028528 | -0.2965899406 | -0.339315136 | 1 |
| ## 895 | -0.134684699 | -0.0258565421 | -0.0852929552 | 0.977216632  | 1 |
| ## 896 | 0.687287366  | 0.6187128050  | 0.4233849725  | 0.296463405  | 0 |
| ## 897 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 898 | -0.037294644 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## 899 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 900 | -0.134684699 | -0.0844812414 | -0.2731124978 | -0.114441697 | 0 |
| ## 901 | -0.080146268 | 0.0899416004  | 4.8449700366  | 2.344856000  | 1 |
| ## 902 | -0.134684699 | -0.1064617243 | -0.3513706405 | -0.439486031 | 0 |
| ## 903 | -0.134684699 | -0.1156530129 | -0.3513706405 | -0.482416415 | 0 |
| ## 904 | -0.134684699 | -0.1024103011 | -0.2809383120 | 0.069545662  | 1 |
| ## 905 | -0.134684699 | -0.1023800666 | -0.3513706405 | -0.331137920 | 0 |
| ## 906 | -0.134684699 | -0.1156530129 | -0.3435448262 | -0.482416415 | 0 |
| ## 907 | -0.134684699 | -0.0974518428 | -0.2965899406 | -0.478327807 | 1 |
| ## 908 | -0.134684699 | -0.0729921307 | 0.1103524016  | 0.633773563  | 1 |
| ## 909 | -0.134684699 | -0.1138389428 | -0.3278931977 | -0.508992367 | 0 |

|        |              |               |               |              |   |
|--------|--------------|---------------|---------------|--------------|---|
| ## 910 | -0.134684699 | -0.1190695117 | -0.3513706405 | -0.386334127 | 0 |
| ## 911 | 1.310583718  | -0.1098782231 | -0.3044157549 | -0.498770847 | 0 |
| ## 912 | -0.134684699 | -0.0609285644 | -0.0539896981 | -0.302517664 | 1 |
| ## 913 | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.527391102 | 0 |
| ## 914 | -0.134684699 | -0.0810949772 | -0.3044157549 | -0.498770847 | 1 |
| ## 915 | -0.134684699 | -0.0833323303 | -0.1400736551 | -0.404732863 | 1 |
| ## 916 | -0.134684699 | -0.1158948889 | -0.3513706405 | -0.445618943 | 0 |
| ## 917 | -0.134684699 | -0.0695453975 | -0.1635510980 | -0.292296144 | 1 |
| ## 918 | 0.360056781  | 0.0237582756  | 0.8068498719  | 3.916925767  | 1 |
| ## 919 | -0.134684699 | 0.0136599519  | -0.0305122553 | -0.310694880 | 1 |
| ## 920 | -0.134684699 | -0.0810949772 | -0.2887641263 | -0.351580960 | 0 |
| ## 921 | 0.212023897  | -0.0497720332 | 0.0242684446  | -0.192125248 | 1 |
| ## 922 | -0.134684699 | -0.1012311555 | -0.3357190120 | -0.502859455 | 0 |
| ## 923 | -0.134684699 | 2.9423552182  | 1.9885478270  | 0.081811486  | 1 |
| ## 924 | -0.134684699 | 0.5250463180  | 0.7755466148  | -0.222789808 | 1 |
| ## 925 | -0.134684699 | -0.1028638186 | -0.2183317979 | -0.173726513 | 1 |
| ## 926 | -0.134684699 | -0.0221074639 | -0.1792027265 | -0.104220177 | 1 |
| ## 927 | -0.134684699 | -0.1207626438 | -0.3278931977 | -0.461973375 | 0 |
| ## 928 | -0.134684699 | -0.0967564492 | -0.2105059836 | 0.725767242  | 0 |
| ## 929 | 0.009452583  | -0.1074594629 | -0.3122415691 | -0.173726513 | 0 |
| ## 930 | -0.134684699 | -0.0941260475 | -0.2731124978 | -0.470150591 | 1 |
| ## 931 | -0.076250666 | 0.0899416004  | 4.8449700366  | 2.242640801  | 1 |
| ## 932 | -0.134684699 | -0.0492882811 | 0.0868749588  | -0.008137890 | 1 |
| ## 933 | -0.134684699 | -0.0910723628 | 0.1260040301  | -0.008137890 | 1 |
| ## 934 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.545789838 | 0 |
| ## 935 | -0.134684699 | -0.0934608885 | -0.2574608692 | -0.224834112 | 1 |
| ## 936 | -0.134684699 | -0.0978751258 | -0.2496350550 | -0.431308815 | 1 |
| ## 937 | -0.134684699 | -0.1271723582 | -0.3670222690 | -0.367935391 | 0 |
| ## 938 | -0.134684699 | -0.0918886944 | -0.1948543550 | 0.320995052  | 0 |
| ## 939 | -0.134684699 | -0.1053430478 | -0.1400736551 | 1.312482486  | 1 |
| ## 940 | -0.134684699 | -0.1129923768 | -0.2965899406 | -0.488549327 | 0 |
| ## 941 | -0.025607837 | 0.1134338084  | 0.1181782159  | 0.940419161  | 1 |
| ## 942 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## 943 | -0.134684699 | -0.0964541042 | -0.2339834264 | -0.269808800 | 0 |
| ## 944 | -0.134684699 | -0.0670359338 | -0.2887641263 | -0.304561968 | 1 |
| ## 945 | -0.134684699 | -0.0160303290 | -0.1948543550 | -0.439486031 | 1 |
| ## 946 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 947 | -0.068459461 | -0.0906793143 | -0.1478994694 | 0.427298860  | 1 |
| ## 948 | 4.084252487  | 0.0758523224  | -0.0383380696 | 0.351659612  | 1 |
| ## 949 | 0.243188715  | -0.0924329154 | -0.2965899406 | 0.079767182  | 0 |
| ## 950 | -0.134684699 | 0.0280213404  | -0.0305122553 | -0.175770817 | 1 |
| ## 951 | -0.134684699 | -0.0044807492 | 0.2355654299  | -0.069467009 | 1 |
| ## 952 | -0.134684699 | 0.1141896709  | 0.1025265873  | -0.398599951 | 0 |
| ## 953 | -0.134684699 | -0.1179810696 | -0.3435448262 | -0.355669567 | 0 |
| ## 954 | -0.134684699 | -0.0093787386 | 0.0790491445  | -0.280030320 | 1 |
| ## 955 | -0.134684699 | -0.1134156598 | -0.2339834264 | 0.124741870  | 1 |
| ## 956 | -0.134684699 | -0.0849649934 | -0.2183317979 | -0.345448048 | 0 |
| ## 957 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 958 | -0.134684699 | -0.0206259733 | 0.1103524016  | -0.147150561 | 0 |
| ## 959 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 960 | -0.103519881 | -0.0519791518 | 0.6033787008  | 0.713501418  | 1 |
| ## 961 | -0.134684699 | -0.1081246219 | -0.3591964548 | -0.468106287 | 0 |
| ## 962 | -0.134684699 | -0.0840881929 | -0.2731124978 | -0.196213856 | 0 |
| ## 963 | -0.134684699 | -0.0543072085 | -0.1009445838 | 0.214691245  | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 964  | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 965  | -0.134684699 | -0.0919491634 | -0.2652866835 | -0.486505023 | 1 |
| ## 966  | -0.134684699 | -0.0588726183 | 0.3451268298  | 1.426963510  | 1 |
| ## 967  | -0.134684699 | -0.1109061961 | -0.2574608692 | -0.224834112 | 1 |
| ## 968  | 0.071782218  | -0.1007776380 | -0.1400736551 | -0.020403714 | 1 |
| ## 969  | -0.134684699 | -0.0834835029 | 0.0399200731  | 0.028659582  | 0 |
| ## 970  | -0.134684699 | -0.1129621423 | -0.2965899406 | -0.445618943 | 1 |
| ## 971  | -0.134684699 | -0.1271723582 | -0.3748480833 | -0.531479710 | 0 |
| ## 972  | -0.134684699 | -0.0355920518 | 0.2042621729  | 0.049102622  | 1 |
| ## 973  | -0.134684699 | -0.1251164120 | -0.3591964548 | -0.453796159 | 0 |
| ## 974  | -0.134684699 | -0.1101503336 | -0.3435448262 | -0.488549327 | 0 |
| ## 975  | -0.134684699 | -0.0828788128 | -0.3044157549 | -0.100131569 | 0 |
| ## 976  | -0.134684699 | -0.0256449006 | -0.1870285408 | -0.455840463 | 1 |
| ## 977  | -0.134684699 | -0.1155018404 | -0.2887641263 | -0.382245519 | 0 |
| ## 978  | 1.400182569  | -0.0547607260 | -0.2183317979 | -0.063334097 | 1 |
| ## 979  | -0.134684699 | -0.1153506679 | -0.3513706405 | -0.500815151 | 0 |
| ## 980  | -0.134684699 | -0.0702407910 | -0.2261576121 | -0.306606272 | 1 |
| ## 981  | -0.134684699 | -0.0789785621 | -0.1557252837 | 0.408900124  | 1 |
| ## 982  | -0.134684699 | 0.1615671355  | 0.1181782159  | -0.263675888 | 1 |
| ## 983  | -0.134684699 | -0.0783134030 | -0.0226864410 | 1.645704036  | 0 |
| ## 984  | -0.134684699 | -0.1125690937 | -0.3200673834 | -0.468106287 | 0 |
| ## 985  | -0.134684699 | -0.0353199412 | -0.0383380696 | 0.400722908  | 1 |
| ## 986  | -0.134684699 | -0.0817903707 | -0.1244220266 | -0.153283473 | 0 |
| ## 987  | -0.068459461 | -0.0906793143 | -0.1478994694 | 0.427298860  | 1 |
| ## 988  | -0.134684699 | 0.2389069915  | -0.0148606268 | -0.439486031 | 0 |
| ## 989  | -0.134684699 | -0.0465369415 | -0.1713769122 | -0.384289823 | 1 |
| ## 990  | 0.005556981  | -0.0636799041 | -0.0931187695 | 0.161539341  | 0 |
| ## 991  | -0.134684699 | -0.0849649934 | -0.2183317979 | -0.345448048 | 0 |
| ## 992  | -0.134684699 | -0.1170438000 | -0.3278931977 | -0.414954383 | 1 |
| ## 993  | -0.029503439 | -0.0339593887 | 0.6346819579  | 1.715210372  | 1 |
| ## 994  | -0.134684699 | -0.1114806517 | -0.3435448262 | -0.306606272 | 1 |
| ## 995  | 3.122038743  | 0.0959885007  | 0.0633975160  | 1.281817927  | 1 |
| ## 996  | -0.134684699 | -0.1159855925 | -0.3357190120 | -0.421087295 | 1 |
| ## 997  | 0.118529445  | 1.6132162778  | 6.1988359057  | 1.492381237  | 1 |
| ## 998  | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.529435406 | 0 |
| ## 999  | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1000 | -0.134684699 | -0.1113294792 | -0.3670222690 | -0.537612622 | 0 |
| ## 1001 | -0.134684699 | -0.0174815851 | -0.0696413267 | 0.173805165  | 1 |
| ## 1002 | 0.180859080  | 1.9464609583  | 5.1345251647  | 1.020147016  | 1 |
| ## 1003 | -0.134684699 | 0.0146576905  | -0.1557252837 | -0.333182224 | 1 |
| ## 1004 | 0.687287366  | 0.6187128050  | 0.4233849725  | 0.296463405  | 0 |
| ## 1005 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 1006 | -0.134684699 | -0.0962122282 | -0.2105059836 | -0.414954383 | 1 |
| ## 1007 | -0.134684699 | -0.1271723582 | -0.3748480833 | -0.531479710 | 0 |
| ## 1008 | -0.134684699 | -0.0407621516 | -0.3044157549 | -0.408821471 | 0 |
| ## 1009 | -0.134684699 | -0.0799763006 | 0.0007910018  | 0.159495037  | 0 |
| ## 1010 | -0.134684699 | -0.0355920518 | 0.2042621729  | 0.049102622  | 1 |
| ## 1011 | -0.134684699 | -0.0696965700 | -0.2731124978 | -0.404732863 | 0 |
| ## 1012 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 1013 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1014 | -0.134684699 | -0.0445414643 | -0.3044157549 | -0.484460719 | 1 |
| ## 1015 | -0.134684699 | -0.0256449006 | -0.1870285408 | -0.455840463 | 1 |
| ## 1016 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.529435406 | 0 |
| ## 1017 | -0.134684699 | -0.1150785574 | -0.2731124978 | -0.327049312 | 0 |

|    |      |              |               |               |              |   |
|----|------|--------------|---------------|---------------|--------------|---|
| ## | 1018 | -0.134684699 | -0.1018056110 | -0.2965899406 | -0.333182224 | 0 |
| ## | 1019 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.543745534 | 0 |
| ## | 1020 | 3.328505659  | 0.2148403279  | 0.4468624153  | 1.692723028  | 1 |
| ## | 1021 | -0.134684699 | 0.1795868986  | 1.1198824428  | 1.529178709  | 1 |
| ## | 1022 | 0.025034992  | -0.0927352605 | -0.2026801693 | -0.249365760 | 0 |
| ## | 1023 | -0.134684699 | 0.0153833185  | -0.2496350550 | -0.464017679 | 0 |
| ## | 1024 | -0.134684699 | -0.0903467348 | -0.2418092407 | -0.253454368 | 1 |
| ## | 1025 | -0.134684699 | -0.1149878539 | -0.3513706405 | -0.513080975 | 0 |
| ## | 1026 | -0.134684699 | -0.0609285644 | 0.0086168160  | -0.363846783 | 0 |
| ## | 1027 | -0.134684699 | -0.0992961474 | -0.2105059836 | 0.110431742  | 0 |
| ## | 1028 | -0.134684699 | -0.0374061219 | -0.2339834264 | -0.093998657 | 1 |
| ## | 1029 | -0.134684699 | -0.1189485736 | -0.2887641263 | -0.310694880 | 0 |
| ## | 1030 | -0.134684699 | -0.1020172526 | -0.2652866835 | -0.390422735 | 0 |
| ## | 1031 | -0.134684699 | -0.0921608049 | -0.3200673834 | -0.500815151 | 1 |
| ## | 1032 | -0.134684699 | -0.1106038511 | -0.3044157549 | -0.402688559 | 1 |
| ## | 1033 | -0.134684699 | -0.1012311555 | -0.3278931977 | -0.474239199 | 0 |
| ## | 1034 | -0.134684699 | -0.0753201873 | -0.3044157549 | -0.466061983 | 1 |
| ## | 1035 | -0.099624279 | -0.0131580513 | 0.3529526440  | 2.134292689  | 1 |
| ## | 1036 | -0.134684699 | -0.0223795744 | -0.1165962123 | 0.318950748  | 0 |
| ## | 1037 | -0.134684699 | -0.0640427181 | -0.0931187695 | -0.290251840 | 1 |
| ## | 1038 | -0.134684699 | -0.1012311555 | -0.2652866835 | -0.474239199 | 1 |
| ## | 1039 | -0.134684699 | -0.0664614783 | 0.2042621729  | 0.353703916  | 1 |
| ## | 1040 | -0.134684699 | -0.0777389475 | -0.2965899406 | -0.496726543 | 1 |
| ## | 1041 | -0.134684699 | 0.0569859932  | 0.1651331015  | -0.104220177 | 1 |
| ## | 1042 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## | 1043 | -0.134684699 | -0.0930980745 | -0.1322478409 | -0.306606272 | 1 |
| ## | 1044 | -0.134684699 | -0.1243605495 | -0.3513706405 | -0.504903759 | 0 |
| ## | 1045 | -0.134684699 | -0.0858720285 | -0.2574608692 | -0.255498672 | 0 |
| ## | 1046 | -0.134684699 | -0.1291678353 | -0.3748480833 | -0.519213887 | 0 |
| ## | 1047 | 0.153589864  | -0.0025457411 | 0.0242684446  | 1.970748370  | 0 |
| ## | 1048 | 1.224880470  | -0.0609285644 | -0.3122415691 | -0.486505023 | 1 |
| ## | 1049 | -0.134684699 | -0.1012311555 | -0.3591964548 | -0.527391102 | 0 |
| ## | 1050 | -0.134684699 | -0.0903467348 | -0.2418092407 | -0.253454368 | 1 |
| ## | 1051 | -0.134684699 | -0.0528559524 | -0.2652866835 | -0.400644255 | 1 |
| ## | 1052 | -0.134684699 | -0.1106945546 | -0.3122415691 | -0.492637935 | 0 |
| ## | 1053 | -0.134684699 | -0.0733247102 | 0.0399200731  | -0.314783488 | 1 |
| ## | 1054 | -0.134684699 | -0.0917072874 | -0.3357190120 | -0.457884767 | 0 |
| ## | 1055 | -0.134684699 | -0.1216394443 | -0.3513706405 | -0.439486031 | 1 |
| ## | 1056 | -0.134684699 | 0.1781961116  | 0.6425077721  | 0.969039416  | 1 |
| ## | 1057 | -0.134684699 | -0.0990240369 | -0.3044157549 | -0.200302464 | 1 |
| ## | 1058 | -0.134684699 | -0.0834835029 | 0.0399200731  | 0.028659582  | 0 |
| ## | 1059 | 0.188650284  | 0.3312431605  | 0.7677208005  | 0.218779853  | 1 |
| ## | 1060 | -0.134684699 | -0.0618053650 | -0.0226864410 | -0.392467039 | 0 |
| ## | 1061 | -0.134684699 | -0.0386457365 | -0.0148606268 | 0.625596347  | 1 |
| ## | 1062 | -0.134684699 | -0.0956680071 | -0.1948543550 | -0.208479680 | 1 |
| ## | 1063 | -0.134684699 | -0.0059924743 | 0.2512170585  | 0.641950778  | 0 |
| ## | 1064 | -0.134684699 | -0.0898932173 | -0.3591964548 | -0.508992367 | 0 |
| ## | 1065 | -0.134684699 | -0.0765598019 | -0.1400736551 | 0.735988762  | 0 |
| ## | 1066 | -0.134684699 | -0.0988728643 | -0.0226864410 | -0.331137920 | 0 |
| ## | 1067 | -0.134684699 | -0.0017898786 | 0.0164426303  | 1.733609108  | 1 |
| ## | 1068 | -0.134684699 | -0.0962122282 | -0.3513706405 | -0.521258190 | 0 |
| ## | 1069 | -0.076250666 | 0.0968048323  | 4.8449700366  | 2.214020545  | 1 |
| ## | 1070 | 0.145798660  | -0.0882907887 | -0.1713769122 | -0.235055632 | 1 |
| ## | 1071 | -0.134684699 | -0.1087897810 | -0.3435448262 | -0.447663247 | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1072 | -0.134684699 | -0.1210649888 | -0.3591964548 | -0.468106287 | 0 |
| ## 1073 | -0.134684699 | -0.1259932126 | -0.3670222690 | -0.521258190 | 0 |
| ## 1074 | 0.850902659  | 0.0767593575  | 0.5955528865  | 2.741450974  | 1 |
| ## 1075 | -0.134684699 | -0.1015939695 | -0.2026801693 | -0.181903729 | 0 |
| ## 1076 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.513080975 | 0 |
| ## 1077 | -0.045085848 | -0.0766505054 | -0.1870285408 | 4.583368867  | 1 |
| ## 1078 | -0.134684699 | -0.0963936352 | -0.3044157549 | -0.437441727 | 0 |
| ## 1079 | -0.134684699 | -0.0593866048 | -0.1009445838 | -0.277986016 | 1 |
| ## 1080 | -0.134684699 | -0.1223953069 | -0.3670222690 | -0.521258190 | 0 |
| ## 1081 | -0.134684699 | -0.0717222816 | -0.2026801693 | -0.286163232 | 0 |
| ## 1082 | -0.134684699 | 0.3810696197  | 1.1746631427  | 0.222868461  | 0 |
| ## 1083 | 0.180859080  | 0.3286127588  | 0.7598949862  | 0.214691245  | 1 |
| ## 1084 | 1.879341640  | -0.0357432243 | -0.2496350550 | -0.292296144 | 1 |
| ## 1085 | -0.134684699 | -0.1055546893 | -0.3044157549 | -0.494682239 | 0 |
| ## 1086 | -0.134684699 | 0.0075525825  | 0.2199138014  | 0.905665993  | 1 |
| ## 1087 | -0.134684699 | -0.1079734494 | -0.3435448262 | -0.449707551 | 0 |
| ## 1088 | 0.348369974  | 0.0230326475  | 0.5172947438  | 3.986432102  | 1 |
| ## 1089 | -0.134684699 | -0.1185252906 | -0.2339834264 | -0.302517664 | 1 |
| ## 1090 | -0.134684699 | -0.1032568671 | -0.3278931977 | -0.488549327 | 0 |
| ## 1091 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 1092 | -0.134684699 | 0.0032592833  | 0.1729589158  | 2.140425601  | 1 |
| ## 1093 | -0.134684699 | -0.0783134030 | -0.0226864410 | 1.645704036  | 0 |
| ## 1094 | -0.134684699 | -0.1295306493 | -0.3670222690 | -0.480372111 | 1 |
| ## 1095 | 1.057369575  | -0.0065366954 | -0.1009445838 | 0.323039356  | 1 |
| ## 1096 | 0.075677820  | 0.2802980247  | 3.7180527813  | 1.334969830  | 1 |
| ## 1097 | -0.134684699 | -0.0470811625 | -0.1870285408 | 0.196292509  | 1 |
| ## 1098 | -0.134684699 | -0.0966052767 | 0.0242684446  | 0.539735579  | 1 |
| ## 1099 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 1100 | -0.064563859 | -0.0685778934 | 0.1025265873  | 0.308729228  | 0 |
| ## 1101 | -0.134684699 | 0.0735545003  | -0.1400736551 | -0.038802449 | 1 |
| ## 1102 | -0.134684699 | -0.0493487501 | -0.0226864410 | 0.417077340  | 0 |
| ## 1103 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 1104 | 1.742995563  | 0.0137204209  | -0.0539896981 | 0.294419101  | 0 |
| ## 1105 | -0.134684699 | -0.0598098878 | 0.2903461299  | 2.815045917  | 1 |
| ## 1106 | -0.134684699 | -0.1112085411 | -0.2809383120 | -0.216656896 | 1 |
| ## 1107 | -0.134684699 | -0.0044807492 | -0.2574608692 | -0.494682239 | 0 |
| ## 1108 | -0.134684699 | -0.1083967325 | -0.3200673834 | -0.410865775 | 0 |
| ## 1109 | -0.134684699 | -0.0672173408 | -0.2574608692 | -0.496726543 | 0 |
| ## 1110 | -0.134684699 | -0.0963936352 | -0.3200673834 | -0.327049312 | 0 |
| ## 1111 | -0.134684699 | -0.1143831638 | -0.3591964548 | -0.474239199 | 0 |
| ## 1112 | -0.134684699 | -0.0626216965 | -0.1322478409 | -0.185992337 | 0 |
| ## 1113 | -0.134684699 | -0.1201277192 | -0.3591964548 | -0.525346798 | 0 |
| ## 1114 | -0.134684699 | 0.0224581920  | 0.2590428728  | 0.535646971  | 1 |
| ## 1115 | 1.407973774  | -0.0494092192 | -0.3044157549 | -0.494682239 | 1 |
| ## 1116 | -0.134684699 | -0.0927050259 | -0.2261576121 | -0.365891087 | 0 |
| ## 1117 | -0.134684699 | -0.0753201873 | -0.2418092407 | -0.302517664 | 0 |
| ## 1118 | 0.071782218  | -0.1012311555 | -0.1400736551 | -0.016315106 | 1 |
| ## 1119 | -0.134684699 | -0.1225767139 | -0.3513706405 | -0.457884767 | 0 |
| ## 1120 | 0.399012803  | -0.0694244594 | -0.2887641263 | -0.310694880 | 0 |
| ## 1121 | -0.134684699 | 0.0226093645  | -0.2261576121 | -0.161460689 | 0 |
| ## 1122 | -0.134684699 | -0.0765900364 | -0.1870285408 | -0.329093616 | 1 |
| ## 1123 | -0.134684699 | -0.0738991657 | -0.2339834264 | 0.194248205  | 0 |
| ## 1124 | 0.761303808  | -0.0854789800 | -0.1478994694 | 0.509071019  | 0 |
| ## 1125 | -0.134684699 | 0.0045896013  | -0.3200673834 | -0.525346798 | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1126 | -0.134684699 | 13.2422522954 | 9.9787041994  | 2.171090161  | 1 |
| ## 1127 | 0.656122548  | -0.0882303197 | 0.5564238151  | 0.813672313  | 0 |
| ## 1128 | -0.134684699 | -0.0625309930 | -0.2731124978 | -0.380201215 | 0 |
| ## 1129 | -0.134684699 | -0.0997194304 | -0.3435448262 | -0.464017679 | 1 |
| ## 1130 | -0.134684699 | -0.0733851792 | 0.0868749588  | -0.320916400 | 0 |
| ## 1131 | -0.134684699 | -0.0634380281 | -0.3122415691 | -0.521258190 | 0 |
| ## 1132 | -0.134684699 | -0.1188881046 | -0.3435448262 | -0.478327807 | 0 |
| ## 1133 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## 1134 | -0.134684699 | -0.0841486619 | -0.3122415691 | -0.427220207 | 0 |
| ## 1135 | -0.134684699 | -0.1025614736 | -0.2183317979 | -0.363846783 | 0 |
| ## 1136 | -0.134684699 | -0.1152599644 | -0.3278931977 | -0.331137920 | 0 |
| ## 1137 | 0.075677820  | 0.2802980247  | 3.7180527813  | 1.334969830  | 1 |
| ## 1138 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 1139 | -0.134684699 | -0.0394620680 | -0.1713769122 | -0.167593601 | 0 |
| ## 1140 | 1.567693464  | 0.1160339755  | 0.5955528865  | 1.367678694  | 1 |
| ## 1141 | -0.134684699 | -0.0353199412 | -0.0383380696 | 0.400722908  | 1 |
| ## 1142 | -0.134684699 | -0.0210190218 | 0.2199138014  | -0.053112577 | 1 |
| ## 1143 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 1144 | -0.134684699 | -0.0113137467 | 0.7051142863  | -0.151239169 | 1 |
| ## 1145 | -0.134684699 | -0.1064012553 | -0.3357190120 | -0.394511343 | 0 |
| ## 1146 | 0.387325996  | 0.0128738549  | 0.0477458874  | 0.184026685  | 1 |
| ## 1147 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1148 | -0.134684699 | -0.1113294792 | -0.3357190120 | -0.517169583 | 0 |
| ## 1149 | -0.134684699 | -0.0407621516 | -0.0383380696 | -0.261631584 | 0 |
| ## 1150 | -0.134684699 | -0.1155018404 | -0.2887641263 | -0.382245519 | 0 |
| ## 1151 | -0.045085848 | -0.1147762124 | -0.3122415691 | -0.243232848 | 0 |
| ## 1152 | -0.134684699 | -0.1108759616 | -0.3122415691 | -0.472194895 | 0 |
| ## 1153 | 0.044513003  | 0.0127226824  | 0.1729589158  | 0.372102652  | 1 |
| ## 1154 | -0.134684699 | -0.0911630663 | -0.2731124978 | -0.190080944 | 0 |
| ## 1155 | -0.134684699 | -0.1166507515 | -0.2418092407 | -0.380201215 | 1 |
| ## 1156 | -0.134684699 | -0.0496208607 | -0.2809383120 | -0.237099936 | 1 |
| ## 1157 | -0.134684699 | -0.0785552790 | -0.3122415691 | -0.435397423 | 1 |
| ## 1158 | -0.134684699 | -0.1136273013 | -0.1009445838 | 0.008216542  | 0 |
| ## 1159 | -0.134684699 | -0.0654335052 | -0.1244220266 | -0.300473360 | 1 |
| ## 1160 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1161 | -0.134684699 | -0.0833020958 | -0.2496350550 | -0.208479680 | 0 |
| ## 1162 | -0.134684699 | -0.1244814875 | -0.3435448262 | -0.341359440 | 0 |
| ## 1163 | -0.134684699 | -0.0440577123 | -0.0226864410 | -0.253454368 | 1 |
| ## 1164 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1165 | -0.134684699 | -0.0306940624 | -0.2887641263 | -0.388378431 | 1 |
| ## 1166 | -0.134684699 | -0.0679732033 | 0.0868749588  | -0.167593601 | 1 |
| ## 1167 | -0.134684699 | -0.0017898786 | 0.0164426303  | 1.733609108  | 1 |
| ## 1168 | -0.134684699 | -0.0029690241 | -0.2339834264 | -0.461973375 | 1 |
| ## 1169 | -0.134684699 | -0.0785552790 | -0.3044157549 | -0.480372111 | 0 |
| ## 1170 | -0.134684699 | -0.0838160824 | -0.2809383120 | -0.410865775 | 0 |
| ## 1171 | -0.134684699 | -0.0960005867 | -0.3044157549 | -0.316827792 | 0 |
| ## 1172 | -0.134684699 | -0.0986914573 | -0.3200673834 | -0.296384752 | 0 |
| ## 1173 | -0.134684699 | -0.1016544385 | -0.3044157549 | -0.247321456 | 0 |
| ## 1174 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1175 | 0.145798660  | -0.0005200295 | 0.2355654299  | 1.555754661  | 0 |
| ## 1176 | -0.134684699 | -0.1163484065 | -0.3513706405 | -0.498770847 | 0 |
| ## 1177 | -0.134684699 | -0.0334454021 | 0.0164426303  | -0.261631584 | 0 |
| ## 1178 | -0.134684699 | -0.1012311555 | -0.3357190120 | -0.523302494 | 0 |
| ## 1179 | 0.858693863  | -0.0777691820 | 0.5564238151  | 0.723722938  | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1180 | -0.134684699 | -0.0217144154 | 0.1103524016  | -0.112397393 | 1 |
| ## 1181 | 0.348369974  | -0.0826671713 | 0.1260040301  | -0.243232848 | 1 |
| ## 1182 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 1183 | -0.134684699 | -0.0994775544 | -0.3513706405 | -0.476283503 | 1 |
| ## 1184 | 0.683391764  | 0.0809619533  | 1.8242057273  | 2.537020575  | 1 |
| ## 1185 | -0.134684699 | -0.1083664980 | -0.3435448262 | -0.486505023 | 0 |
| ## 1186 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 1187 | -0.134684699 | 0.3195121737  | 0.1651331015  | -0.157372081 | 1 |
| ## 1188 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.515125279 | 0 |
| ## 1189 | -0.134684699 | -0.0667033543 | -0.3044157549 | -0.367935391 | 0 |
| ## 1190 | -0.134684699 | -0.0922817429 | -0.2261576121 | 0.419121644  | 0 |
| ## 1191 | -0.134684699 | -0.0733549447 | 0.4938173009  | 0.760520410  | 1 |
| ## 1192 | -0.134684699 | -0.1144738674 | -0.3513706405 | -0.496726543 | 0 |
| ## 1193 | -0.134684699 | -0.0861139045 | -0.3591964548 | -0.537612622 | 0 |
| ## 1194 | -0.134684699 | -0.0962424627 | -0.2339834264 | 0.363925436  | 0 |
| ## 1195 | -0.134684699 | -0.1203998297 | -0.3513706405 | -0.464017679 | 0 |
| ## 1196 | -0.048981450 | -0.1033173361 | -0.3200673834 | -0.204391072 | 0 |
| ## 1197 | -0.134684699 | 0.0053454639  | 0.3920817154  | 0.333260876  | 0 |
| ## 1198 | -0.033399041 | 0.0348241033  | 3.7180527813  | 1.206178679  | 1 |
| ## 1199 | -0.134684699 | -0.0314196905 | -0.0931187695 | -0.063334097 | 0 |
| ## 1200 | -0.134684699 | -0.1041336677 | -0.3044157549 | -0.384289823 | 0 |
| ## 1201 | -0.134684699 | 0.1197830538  | 1.4485666422  | 1.717254676  | 0 |
| ## 1202 | -0.134684699 | -0.1016544385 | -0.3044157549 | -0.247321456 | 0 |
| ## 1203 | -0.134684699 | -0.0942167510 | -0.2418092407 | -0.351580960 | 1 |
| ## 1204 | -0.134684699 | -0.1231511694 | -0.3591964548 | -0.443574639 | 0 |
| ## 1205 | 0.297727146  | -0.0668242923 | 0.0320942589  | 1.351324262  | 1 |
| ## 1206 | -0.134684699 | -0.1165600480 | -0.3278931977 | 0.801406490  | 1 |
| ## 1207 | -0.134684699 | -0.0870814086 | -0.2731124978 | -0.149194865 | 0 |
| ## 1208 | -0.134684699 | -0.0813368532 | -0.2026801693 | 0.631729259  | 0 |
| ## 1209 | -0.134684699 | -0.1186462286 | -0.3278931977 | -0.451751855 | 0 |
| ## 1210 | -0.134684699 | -0.0609285644 | -0.3278931977 | -0.527391102 | 0 |
| ## 1211 | 0.652226946  | -0.0478370250 | -0.0539896981 | 3.109425692  | 0 |
| ## 1212 | -0.134684699 | -0.0829695163 | -0.2183317979 | -0.292296144 | 1 |
| ## 1213 | -0.134684699 | -0.1213975683 | -0.3513706405 | -0.515125279 | 1 |
| ## 1214 | 2.171511805  | 0.0586488908  | -0.0539896981 | 0.122697566  | 0 |
| ## 1215 | 0.274353533  | -0.0934306540 | -0.2731124978 | -0.155327777 | 0 |
| ## 1216 | -0.134684699 | -0.0486231221 | 0.0242684446  | -0.341359440 | 0 |
| ## 1217 | -0.134684699 | -0.1185252906 | -0.3670222690 | -0.506948063 | 0 |
| ## 1218 | -0.134684699 | -0.0673382788 | -0.2731124978 | -0.337270832 | 0 |
| ## 1219 | -0.134684699 | -0.0732340067 | -0.2339834264 | -0.057201185 | 1 |
| ## 1220 | -0.134684699 | -0.0178443991 | -0.2809383120 | 0.016393758  | 0 |
| ## 1221 | -0.134684699 | -0.1264467301 | -0.3748480833 | -0.533524014 | 0 |
| ## 1222 | -0.134684699 | -0.0953354276 | -0.2574608692 | -0.363846783 | 0 |
| ## 1223 | -0.134684699 | -0.0985100503 | -0.3357190120 | -0.500815151 | 0 |
| ## 1224 | -0.134684699 | -0.0488952326 | -0.2261576121 | -0.235055632 | 0 |
| ## 1225 | -0.134684699 | -0.1002031824 | -0.2887641263 | -0.427220207 | 0 |
| ## 1226 | -0.134684699 | -0.1087897810 | -0.3044157549 | -0.476283503 | 0 |
| ## 1227 | 1.310583718  | -0.1098782231 | -0.3044157549 | -0.498770847 | 0 |
| ## 1228 | -0.134684699 | -0.1284422073 | -0.3748480833 | -0.525346798 | 1 |
| ## 1229 | -0.134684699 | -0.1082153255 | -0.3278931977 | -0.500815151 | 0 |
| ## 1230 | -0.134684699 | 0.0285957959  | 0.1025265873  | -0.329093616 | 1 |
| ## 1231 | -0.134684699 | -0.1208835818 | -0.3591964548 | -0.492637935 | 0 |
| ## 1232 | -0.134684699 | -0.1277770482 | -0.3670222690 | -0.435397423 | 0 |
| ## 1233 | 0.075677820  | -0.0790087966 | -0.2809383120 | -0.251410064 | 0 |



|    |      |              |               |               |              |   |
|----|------|--------------|---------------|---------------|--------------|---|
| ## | 1234 | -0.134684699 | -0.1089107190 | -0.2887641263 | -0.251410064 | 0 |
| ## | 1235 | -0.134684699 | -0.1213975683 | -0.3513706405 | -0.515125279 | 1 |
| ## | 1236 | -0.134684699 | -0.0640427181 | -0.0931187695 | -0.290251840 | 1 |
| ## | 1237 | -0.134684699 | -0.1249350050 | -0.3591964548 | -0.455840463 | 1 |
| ## | 1238 | -0.013921030 | -0.0501650817 | 0.1494814729  | 0.545868491  | 1 |
| ## | 1239 | -0.134684699 | -0.0476556180 | -0.0383380696 | -0.038802449 | 0 |
| ## | 1240 | 0.044513003  | -0.0099229596 | 0.6425077721  | 1.453539462  | 1 |
| ## | 1241 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## | 1242 | -0.134684699 | -0.0258565421 | -0.0852929552 | 0.977216632  | 1 |
| ## | 1243 | -0.134684699 | -0.0605959849 | 0.4468624153  | -0.151239169 | 0 |
| ## | 1244 | -0.134684699 | -0.1012311555 | -0.1557252837 | -0.331137920 | 1 |
| ## | 1245 | -0.134684699 | -0.0504069577 | -0.1165962123 | -0.382245519 | 1 |
| ## | 1246 | -0.037294644 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## | 1247 | -0.134684699 | -0.1064919588 | -0.3278931977 | -0.461973375 | 0 |
| ## | 1248 | -0.134684699 | -0.1234232799 | -0.3670222690 | -0.508992367 | 0 |
| ## | 1249 | -0.134684699 | -0.1087897810 | -0.3591964548 | -0.533524014 | 0 |
| ## | 1250 | -0.134684699 | -0.0132789893 | 0.2199138014  | -0.327049312 | 1 |
| ## | 1251 | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.517169583 | 0 |
| ## | 1252 | 0.671704957  | -0.0834532684 | -0.0774671410 | -0.277986016 | 0 |
| ## | 1253 | -0.134684699 | -0.0952749586 | -0.2731124978 | -0.228922720 | 0 |
| ## | 1254 | -0.134684699 | -0.1099689266 | -0.2731124978 | -0.390422735 | 0 |
| ## | 1255 | 0.309413952  | 0.0342798823  | 0.7051142863  | 4.315565044  | 1 |
| ## | 1256 | -0.134684699 | -0.0709966535 | -0.3513706405 | -0.517169583 | 0 |
| ## | 1257 | -0.134684699 | -0.0973006702 | -0.2965899406 | -0.081732833 | 1 |
| ## | 1258 | -0.134684699 | -0.0960610557 | -0.2965899406 | -0.392467039 | 0 |
| ## | 1259 | -0.134684699 | -0.1295004148 | -0.3357190120 | -0.249365760 | 0 |
| ## | 1260 | -0.134684699 | -0.0729921307 | 0.0790491445  | -0.271853104 | 1 |
| ## | 1261 | -0.134684699 | 0.1031843122  | 0.2120879871  | -0.171682209 | 0 |
| ## | 1262 | -0.134684699 | -0.1082153255 | -0.3278931977 | -0.500815151 | 0 |
| ## | 1263 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1264 | -0.134684699 | -0.0810949772 | -0.3513706405 | -0.515125279 | 0 |
| ## | 1265 | -0.134684699 | -0.0912840044 | -0.1713769122 | -0.085821441 | 1 |
| ## | 1266 | -0.134684699 | -0.1247535980 | -0.3670222690 | -0.525346798 | 0 |
| ## | 1267 | -0.076250666 | 0.0968048323  | 4.8449700366  | 2.214020545  | 1 |
| ## | 1268 | -0.134684699 | -0.0496208607 | -0.2809383120 | -0.237099936 | 1 |
| ## | 1269 | -0.134684699 | -0.1058872688 | -0.2965899406 | -0.400644255 | 1 |
| ## | 1270 | 0.286040339  | -0.0784343410 | -0.1948543550 | -0.226878416 | 0 |
| ## | 1271 | -0.134684699 | -0.0041784042 | -0.1087703980 | -0.345448048 | 1 |
| ## | 1272 | 1.559902259  | 0.0269026638  | -0.1009445838 | 1.964615458  | 1 |
| ## | 1273 | 7.196838647  | 0.0277492298  | -0.0696413267 | -0.355669567 | 1 |
| ## | 1274 | -0.134684699 | -0.0911630663 | -0.2809383120 | -0.304561968 | 1 |
| ## | 1275 | -0.134684699 | -0.0885628992 | -0.1792027265 | 0.594931787  | 0 |
| ## | 1276 | -0.134684699 | -0.0751992493 | -0.1087703980 | -0.167593601 | 1 |
| ## | 1277 | -0.134684699 | -0.1012311555 | -0.3122415691 | -0.511036671 | 0 |
| ## | 1278 | -0.084041870 | 0.0645748532  | 4.8449700366  | 2.328501568  | 1 |
| ## | 1279 | 26.729388090 | -0.0969378562 | -0.3278931977 | -0.425175903 | 0 |
| ## | 1280 | 0.706765377  | -0.0565445616 | -0.3357190120 | -0.384289823 | 0 |
| ## | 1281 | -0.134684699 | -0.1073989939 | -0.2965899406 | 0.392545692  | 1 |
| ## | 1282 | -0.134684699 | -0.0949423791 | -0.2887641263 | -0.331137920 | 0 |
| ## | 1283 | 0.126320649  | 0.3946146765  | 2.6850452973  | 0.956773593  | 1 |
| ## | 1284 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## | 1285 | -0.134684699 | -0.1281096277 | -0.3200673834 | 0.122697566  | 0 |
| ## | 1286 | -0.134684699 | -0.0701198530 | -0.2965899406 | -0.337270832 | 1 |
| ## | 1287 | -0.134684699 | -0.0483207771 | -0.2731124978 | -0.425175903 | 1 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1288 | -0.134684699 | -0.0898932173 | -0.3044157549 | -0.470150591 | 1 |
| ## 1289 | 0.075677820  | -0.1158948889 | -0.3122415691 | -0.253454368 | 1 |
| ## 1290 | -0.134684699 | -0.0829997508 | -0.2652866835 | -0.212568288 | 0 |
| ## 1291 | -0.045085848 | -0.1147762124 | -0.3122415691 | -0.243232848 | 0 |
| ## 1292 | -0.134684699 | -0.0844510069 | -0.0226864410 | -0.359758175 | 0 |
| ## 1293 | -0.134684699 | -0.1109968996 | -0.3122415691 | -0.228922720 | 0 |
| ## 1294 | -0.134684699 | -0.0600819983 | 0.0320942589  | -0.224834112 | 1 |
| ## 1295 | -0.134684699 | -0.0901350933 | -0.2965899406 | -0.126707521 | 0 |
| ## 1296 | -0.134684699 | 0.0045896013  | -0.3200673834 | -0.525346798 | 0 |
| ## 1297 | -0.134684699 | -0.1153506679 | -0.3357190120 | -0.453796159 | 0 |
| ## 1298 | -0.134684699 | -0.0852975730 | -0.0226864410 | -0.361802479 | 0 |
| ## 1299 | -0.134684699 | -0.0761667534 | -0.0226864410 | 1.118273608  | 0 |
| ## 1300 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1301 | -0.006129826 | 0.0549602816  | 0.0320942589  | 0.331216572  | 1 |
| ## 1302 | -0.134684699 | -0.0479881976 | -0.2105059836 | -0.386334127 | 1 |
| ## 1303 | -0.134684699 | -0.1278375172 | -0.3670222690 | -0.433353119 | 0 |
| ## 1304 | -0.134684699 | -0.0924329154 | -0.2183317979 | -0.435397423 | 0 |
| ## 1305 | 0.282144737  | -0.0454182649 | -0.1557252837 | -0.241188544 | 1 |
| ## 1306 | -0.134684699 | -0.0572701897 | -0.2574608692 | -0.470150591 | 1 |
| ## 1307 | -0.134684699 | -0.0621077100 | -0.2574608692 | -0.318872096 | 0 |
| ## 1308 | -0.134684699 | -0.0664312438 | -0.1009445838 | 0.089988702  | 0 |
| ## 1309 | -0.134684699 | -0.1151087919 | -0.3513706405 | -0.472194895 | 1 |
| ## 1310 | -0.134684699 | -0.1005659965 | -0.2418092407 | 0.374146956  | 0 |
| ## 1311 | -0.134684699 | -0.0558794026 | -0.1713769122 | -0.461973375 | 1 |
| ## 1312 | -0.134684699 | -0.1023800666 | -0.3122415691 | -0.439486031 | 0 |
| ## 1313 | -0.134684699 | -0.1239070320 | -0.3748480833 | -0.537612622 | 0 |
| ## 1314 | -0.134684699 | -0.0879279746 | -0.2496350550 | 0.674659642  | 0 |
| ## 1315 | 0.176963478  | 0.0374242705  | 0.6425077721  | 1.404476166  | 1 |
| ## 1316 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.511036671 | 1 |
| ## 1317 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.545789838 | 0 |
| ## 1318 | -0.134684699 | -0.1015939695 | -0.2026801693 | -0.181903729 | 0 |
| ## 1319 | -0.134684699 | -0.0465974105 | 0.0868749588  | 0.059324142  | 1 |
| ## 1320 | -0.134684699 | -0.1235139834 | -0.3591964548 | -0.155327777 | 0 |
| ## 1321 | -0.134684699 | -0.0946702686 | -0.3200673834 | -0.130796129 | 0 |
| ## 1322 | -0.134684699 | -0.1200067812 | -0.3278931977 | -0.466061983 | 1 |
| ## 1323 | -0.134684699 | -0.1142622258 | -0.3357190120 | -0.316827792 | 0 |
| ## 1324 | -0.134684699 | -0.0881698507 | -0.2026801693 | 0.556090011  | 0 |
| ## 1325 | -0.134684699 | -0.0548816640 | -0.1244220266 | -0.222789808 | 0 |
| ## 1326 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1327 | -0.134684699 | -0.0361665073 | -0.0696413267 | 0.173805165  | 1 |
| ## 1328 | -0.134684699 | -0.1012311555 | -0.3357190120 | -0.490593631 | 0 |
| ## 1329 | -0.134684699 | -0.1281096277 | -0.3200673834 | 0.122697566  | 0 |
| ## 1330 | -0.134684699 | -0.0719339231 | -0.2652866835 | -0.153283473 | 0 |
| ## 1331 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1332 | -0.134684699 | -0.1051918753 | -0.2261576121 | -0.108308785 | 1 |
| ## 1333 | -0.134684699 | -0.1259932126 | -0.3670222690 | -0.521258190 | 0 |
| ## 1334 | -0.134684699 | -0.0991752094 | -0.2965899406 | -0.302517664 | 0 |
| ## 1335 | -0.134684699 | -0.1000520099 | -0.2496350550 | 0.298507709  | 1 |
| ## 1336 | -0.134684699 | -0.1133249563 | -0.3591964548 | -0.515125279 | 0 |
| ## 1337 | -0.134684699 | -0.1163484065 | -0.3513706405 | -0.498770847 | 0 |
| ## 1338 | -0.134684699 | -0.1108759616 | -0.3122415691 | -0.472194895 | 0 |
| ## 1339 | -0.134684699 | -0.0644357666 | -0.1557252837 | -0.396555647 | 1 |
| ## 1340 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.533524014 | 0 |
| ## 1341 | 1.150864028  | 0.0583163113  | 1.8946380558  | 3.632767512  | 1 |

|    |      |              |               |               |              |   |
|----|------|--------------|---------------|---------------|--------------|---|
| ## | 1342 | -0.134684699 | -0.1177089591 | -0.2965899406 | -0.312739184 | 0 |
| ## | 1343 | -0.134684699 | -0.0722060336 | -0.2418092407 | -0.093998657 | 1 |
| ## | 1344 | -0.134684699 | -0.0847533519 | -0.2496350550 | -0.204391072 | 0 |
| ## | 1345 | 0.017243787  | -0.1288654903 | -0.3670222690 | -0.341359440 | 0 |
| ## | 1346 | -0.134684699 | -0.1092432985 | -0.2183317979 | -0.359758175 | 0 |
| ## | 1347 | -0.134684699 | -0.0823345918 | -0.0226864410 | -0.376112607 | 0 |
| ## | 1348 | -0.134684699 | -0.0701198530 | -0.3044157549 | -0.337270832 | 0 |
| ## | 1349 | -0.134684699 | 0.0226093645  | -0.2261576121 | -0.161460689 | 0 |
| ## | 1350 | -0.134684699 | -0.1093037675 | -0.2965899406 | 0.355748220  | 1 |
| ## | 1351 | -0.134684699 | -0.1120853417 | -0.2965899406 | -0.322960704 | 0 |
| ## | 1352 | -0.134684699 | -0.0683964864 | 0.0399200731  | -0.257542976 | 0 |
| ## | 1353 | -0.134684699 | -0.1264467301 | -0.2887641263 | -0.161460689 | 1 |
| ## | 1354 | -0.134684699 | -0.1032871016 | -0.1478994694 | -0.136929041 | 1 |
| ## | 1355 | -0.134684699 | -0.0982984088 | -0.2809383120 | -0.063334097 | 0 |
| ## | 1356 | 0.909336692  | -0.0924026809 | -0.2965899406 | -0.355669567 | 0 |
| ## | 1357 | -0.134684699 | -0.0807623977 | 0.0633975160  | 0.300552013  | 0 |
| ## | 1358 | 0.348369974  | -0.0436646638 | -0.1713769122 | -0.212568288 | 0 |
| ## | 1359 | 3.768708708  | 0.0786943656  | 0.1886105443  | 0.460007724  | 1 |
| ## | 1360 | -0.134684699 | -0.1295004148 | -0.3357190120 | -0.249365760 | 0 |
| ## | 1361 | -0.134684699 | -0.0288799923 | -0.1322478409 | -0.251410064 | 0 |
| ## | 1362 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1363 | 0.262666726  | -0.0721455646 | 0.1807847300  | 0.269887453  | 1 |
| ## | 1364 | -0.134684699 | -0.1201277192 | -0.3670222690 | -0.525346798 | 1 |
| ## | 1365 | -0.134684699 | -0.1107550236 | -0.3357190120 | -0.130796129 | 0 |
| ## | 1366 | -0.134684699 | -0.0244052860 | -0.1478994694 | -0.325005008 | 1 |
| ## | 1367 | -0.134684699 | -0.0160303290 | -0.1948543550 | -0.439486031 | 1 |
| ## | 1368 | -0.134684699 | 0.0061315609  | 0.5407721866  | -0.218701200 | 1 |
| ## | 1369 | -0.134684699 | -0.0458113134 | -0.2574608692 | -0.406777167 | 1 |
| ## | 1370 | -0.134684699 | -0.0453275614 | 0.5564238151  | 0.026615278  | 1 |
| ## | 1371 | -0.134684699 | -0.1142924603 | -0.3200673834 | -0.406777167 | 0 |
| ## | 1372 | -0.134684699 | -0.1245419565 | -0.3435448262 | -0.394511343 | 0 |
| ## | 1373 | -0.134684699 | -0.1213975683 | -0.3670222690 | -0.531479710 | 0 |
| ## | 1374 | -0.134684699 | -0.1026824116 | -0.3122415691 | -0.464017679 | 0 |
| ## | 1375 | -0.134684699 | -0.0674592168 | 0.0164426303  | 2.115893954  | 0 |
| ## | 1376 | -0.134684699 | -0.0969378562 | -0.3122415691 | -0.394511343 | 0 |
| ## | 1377 | -0.134684699 | -0.0955470691 | -0.2183317979 | 0.494760891  | 0 |
| ## | 1378 | -0.134684699 | -0.1004752930 | -0.3357190120 | -0.382245519 | 0 |
| ## | 1379 | -0.134684699 | -0.1178601316 | -0.3357190120 | -0.396555647 | 0 |
| ## | 1380 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1381 | -0.021712235 | -0.0934608885 | -0.2887641263 | -0.224834112 | 1 |
| ## | 1382 | -0.134684699 | -0.1113294792 | -0.3670222690 | -0.537612622 | 0 |
| ## | 1383 | 0.176963478  | 0.0517251899  | 0.8538047575  | 0.419121644  | 1 |
| ## | 1384 | -0.134684699 | -0.1097572851 | -0.3044157549 | -0.435397423 | 0 |
| ## | 1385 | -0.134684699 | -0.0544281465 | 0.0320942589  | 0.431387468  | 1 |
| ## | 1386 | -0.134684699 | -0.0197189382 | 0.5799012579  | 2.140425601  | 0 |
| ## | 1387 | -0.134684699 | -0.1050104682 | -0.3278931977 | -0.486505023 | 0 |
| ## | 1388 | -0.134684699 | -0.1075804009 | -0.2731124978 | -0.163504993 | 0 |
| ## | 1389 | -0.134684699 | -0.1051616408 | -0.2026801693 | -0.192125248 | 0 |
| ## | 1390 | -0.134684699 | -0.0784041065 | 0.1260040301  | -0.271853104 | 1 |
| ## | 1391 | -0.134684699 | -0.1050104682 | -0.3278931977 | -0.486505023 | 0 |
| ## | 1392 | -0.134684699 | 0.0163205881  | -0.1635510980 | -0.439486031 | 0 |
| ## | 1393 | -0.134684699 | -0.1058872688 | -0.3044157549 | -0.449707551 | 0 |
| ## | 1394 | -0.134684699 | -0.1015335005 | -0.2809383120 | -0.108308785 | 0 |
| ## | 1395 | 2.424725948  | -0.0697570390 | -0.2809383120 | -0.100131569 | 0 |

|    |      |              |               |               |              |   |
|----|------|--------------|---------------|---------------|--------------|---|
| ## | 1396 | -0.134684699 | -0.1235139834 | -0.3122415691 | -0.008137890 | 1 |
| ## | 1397 | -0.134684699 | -0.0740201037 | -0.1400736551 | -0.310694880 | 1 |
| ## | 1398 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.519213887 | 0 |
| ## | 1399 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## | 1400 | -0.134684699 | -0.1076408699 | -0.3435448262 | -0.357713871 | 0 |
| ## | 1401 | -0.134684699 | -0.0639520146 | 0.1260040301  | 2.287615489  | 0 |
| ## | 1402 | 0.309413952  | -0.0513139928 | -0.1713769122 | -0.226878416 | 0 |
| ## | 1403 | -0.134684699 | -0.0675196858 | -0.2418092407 | -0.382245519 | 1 |
| ## | 1404 | -0.134684699 | 0.0227303025  | 0.0555717017  | -0.173726513 | 1 |
| ## | 1405 | -0.134684699 | -0.0799460661 | -0.0226864410 | -0.304561968 | 0 |
| ## | 1406 | -0.134684699 | -0.1151994954 | -0.3122415691 | -0.466061983 | 0 |
| ## | 1407 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.531479710 | 0 |
| ## | 1408 | -0.134684699 | -0.1085176705 | -0.2261576121 | 0.276020365  | 0 |
| ## | 1409 | -0.134684699 | 0.7188797100  | 1.3546568709  | -0.071511313 | 1 |
| ## | 1410 | -0.134684699 | -0.0926143224 | -0.2809383120 | -0.384289823 | 0 |
| ## | 1411 | -0.134684699 | -0.0275496742 | -0.1792027265 | -0.257542976 | 0 |
| ## | 1412 | -0.134684699 | -0.1237256250 | -0.3513706405 | -0.347492352 | 0 |
| ## | 1413 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.527391102 | 0 |
| ## | 1414 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## | 1415 | -0.134684699 | 3.0854853505  | 2.8337357685  | 0.549957099  | 1 |
| ## | 1416 | -0.134684699 | 2.4596311600  | 7.7326955032  | 2.996988972  | 1 |
| ## | 1417 | -0.134684699 | 0.0045896013  | -0.3122415691 | -0.525346798 | 0 |
| ## | 1418 | -0.134684699 | -0.0393411300 | -0.1635510980 | -0.374068303 | 1 |
| ## | 1419 | -0.134684699 | 0.0429874188  | 0.2199138014  | 0.116564654  | 1 |
| ## | 1420 | -0.134684699 | -0.0878070366 | -0.3278931977 | -0.457884767 | 1 |
| ## | 1421 | 0.040617400  | 0.0837132930  | 0.3686042726  | 0.298507709  | 0 |
| ## | 1422 | -0.134684699 | -0.0878070366 | 0.2042621729  | -0.143061953 | 0 |
| ## | 1423 | -0.134684699 | -0.0900443898 | 0.3607784583  | 0.654216602  | 1 |
| ## | 1424 | -0.134684699 | -0.0972402012 | -0.2183317979 | -0.316827792 | 1 |
| ## | 1425 | 0.289935941  | -0.1101503336 | -0.3200673834 | -0.429264511 | 0 |
| ## | 1426 | 1.559902259  | 0.0269026638  | -0.1009445838 | 1.964615458  | 1 |
| ## | 1427 | 0.184754682  | 0.3470255705  | 0.7677208005  | 0.243311501  | 1 |
| ## | 1428 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.529435406 | 0 |
| ## | 1429 | -0.134684699 | -0.1010195140 | -0.1400736551 | 1.549621749  | 0 |
| ## | 1430 | 0.414595212  | 0.0131459654  | 1.1198824428  | 6.014381658  | 1 |
| ## | 1431 | -0.134684699 | -0.1196137327 | -0.3591964548 | -0.468106287 | 0 |
| ## | 1432 | -0.134684699 | -0.0976937188 | -0.2965899406 | -0.327049312 | 0 |
| ## | 1433 | -0.134684699 | 0.0008102886  | 0.1494814729  | -0.284118928 | 0 |
| ## | 1434 | -0.134684699 | -0.1030452256 | -0.2965899406 | -0.349536656 | 1 |
| ## | 1435 | -0.134684699 | -0.1195834982 | -0.3200673834 | -0.453796159 | 0 |
| ## | 1436 | -0.134684699 | -0.0969680907 | -0.0931187695 | -0.114441697 | 1 |
| ## | 1437 | 0.305518350  | -0.0531280629 | 0.0320942589  | 1.426963510  | 1 |
| ## | 1438 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.533524014 | 0 |
| ## | 1439 | -0.134684699 | -0.0334454021 | 0.0164426303  | -0.261631584 | 0 |
| ## | 1440 | -0.134684699 | -0.0572701897 | -0.2574608692 | -0.470150591 | 1 |
| ## | 1441 | -0.134684699 | -0.0659172572 | -0.1087703980 | 0.067501358  | 1 |
| ## | 1442 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1443 | -0.134684699 | -0.1055546893 | -0.2731124978 | -0.335226528 | 0 |
| ## | 1444 | -0.134684699 | -0.1055546893 | -0.2731124978 | -0.335226528 | 0 |
| ## | 1445 | 0.106842638  | -0.0747457318 | -0.0931187695 | 0.310773532  | 0 |
| ## | 1446 | -0.134684699 | -0.1228488244 | -0.3513706405 | -0.511036671 | 0 |
| ## | 1447 | -0.134684699 | -0.1046174197 | -0.3435448262 | -0.408821471 | 1 |
| ## | 1448 | 1.361226547  | -0.0653428017 | -0.3357190120 | -0.443574639 | 0 |
| ## | 1449 | -0.134684699 | 0.0213697499  | 0.1025265873  | -0.325005008 | 1 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1450 | -0.134684699 | -0.1241791425 | -0.3670222690 | -0.474239199 | 0 |
| ## 1451 | -0.134684699 | -0.1200067812 | -0.3591964548 | -0.466061983 | 0 |
| ## 1452 | -0.013921030 | -0.0476858525 | 0.1494814729  | 0.531558363  | 1 |
| ## 1453 | -0.134684699 | -0.1304981534 | -0.3748480833 | -0.482416415 | 0 |
| ## 1454 | -0.134684699 | -0.1086386085 | -0.3044157549 | -0.386334127 | 0 |
| ## 1455 | -0.134684699 | -0.1121155762 | -0.2965899406 | -0.464017679 | 0 |
| ## 1456 | -0.134684699 | -0.0160303290 | -0.1948543550 | -0.439486031 | 1 |
| ## 1457 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1458 | -0.107415483 | -0.1101805681 | -0.1948543550 | 1.371767302  | 0 |
| ## 1459 | -0.134684699 | -0.0483207771 | -0.2731124978 | -0.425175903 | 1 |
| ## 1460 | -0.134684699 | -0.1129923768 | -0.2965899406 | -0.488549327 | 0 |
| ## 1461 | -0.134684699 | 0.0499413543  | 0.6816368435  | 1.140760951  | 1 |
| ## 1462 | -0.134684699 | -0.0386457365 | -0.0148606268 | 0.625596347  | 1 |
| ## 1463 | -0.134684699 | 0.2055885703  | 1.7381217703  | 0.619463435  | 1 |
| ## 1464 | -0.134684699 | -0.0718129851 | -0.1165962123 | 0.139051998  | 1 |
| ## 1465 | -0.134684699 | -0.1129621423 | -0.2965899406 | -0.445618943 | 1 |
| ## 1466 | -0.134684699 | -0.1304981534 | -0.3748480833 | -0.482416415 | 0 |
| ## 1467 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1468 | -0.134684699 | -0.1204905332 | -0.3513706405 | -0.486505023 | 0 |
| ## 1469 | -0.134684699 | 0.0926022365  | 0.0399200731  | -0.255498672 | 1 |
| ## 1470 | -0.134684699 | -0.1185252906 | -0.3591964548 | -0.527391102 | 0 |
| ## 1471 | -0.134684699 | -0.1165298135 | -0.3122415691 | -0.263675888 | 1 |
| ## 1472 | -0.134684699 | -0.0306940624 | -0.3044157549 | -0.335226528 | 1 |
| ## 1473 | -0.134684699 | 0.3810696197  | 1.1746631427  | 0.222868461  | 0 |
| ## 1474 | 0.106842638  | -0.0437251328 | 0.0712233302  | -0.220745504 | 1 |
| ## 1475 | -0.134684699 | -0.0048737978 | 0.2355654299  | -0.038802449 | 1 |
| ## 1476 | -0.134684699 | -0.1201277192 | -0.3591964548 | -0.525346798 | 0 |
| ## 1477 | -0.134684699 | -0.1149878539 | -0.3591964548 | -0.513080975 | 0 |
| ## 1478 | -0.134684699 | -0.0410947311 | -0.1322478409 | 0.960862201  | 0 |
| ## 1479 | -0.134684699 | 0.5250463180  | 0.7755466148  | -0.222789808 | 1 |
| ## 1480 | -0.134684699 | -0.0810949772 | -0.3357190120 | -0.498770847 | 0 |
| ## 1481 | -0.134684699 | -0.1028638186 | -0.2183317979 | -0.173726513 | 1 |
| ## 1482 | -0.134684699 | 0.1915899959  | 1.9259413129  | 0.288286189  | 1 |
| ## 1483 | -0.134684699 | -0.1072780559 | -0.3200673834 | -0.511036671 | 1 |
| ## 1484 | -0.134684699 | -0.0998706029 | -0.3435448262 | -0.455840463 | 0 |
| ## 1485 | -0.134684699 | -0.1093037675 | -0.2965899406 | 0.355748220  | 1 |
| ## 1486 | 0.484716052  | 0.0427153083  | 1.1355340713  | 6.224944969  | 1 |
| ## 1487 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1488 | -0.134684699 | 0.0285957959  | 0.1025265873  | -0.329093616 | 1 |
| ## 1489 | -0.134684699 | -0.0853882765 | -0.2496350550 | -0.016315106 | 0 |
| ## 1490 | -0.068459461 | -0.0906793143 | -0.1478994694 | 0.427298860  | 1 |
| ## 1491 | -0.134684699 | -0.1180415386 | -0.3513706405 | -0.335226528 | 0 |
| ## 1492 | -0.134684699 | -0.0234982510 | -0.1948543550 | -0.416998687 | 0 |
| ## 1493 | -0.134684699 | -0.0755318288 | -0.2731124978 | -0.431308815 | 0 |
| ## 1494 | 0.180859080  | 0.3286127588  | 0.7598949862  | 0.214691245  | 1 |
| ## 1495 | -0.134684699 | 0.1023377462  | -0.0618155124 | -0.280030320 | 1 |
| ## 1496 | -0.134684699 | -0.0918584599 | -0.2731124978 | -0.410865775 | 0 |
| ## 1497 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 1498 | 0.850902659  | 0.0767593575  | 0.5955528865  | 2.741450974  | 1 |
| ## 1499 | -0.134684699 | -0.1136273013 | -0.3513706405 | -0.476283503 | 0 |
| ## 1500 | -0.134684699 | -0.1093944710 | -0.3357190120 | -0.455840463 | 0 |
| ## 1501 | -0.134684699 | -0.0483207771 | -0.2809383120 | -0.455840463 | 1 |
| ## 1502 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 1503 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.511036671 | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1504 | -0.134684699 | -0.0829695163 | -0.2183317979 | -0.292296144 | 1 |
| ## 1505 | -0.134684699 | -0.0956075381 | -0.2731124978 | -0.212568288 | 0 |
| ## 1506 | -0.134684699 | -0.1128109697 | -0.2496350550 | -0.280030320 | 1 |
| ## 1507 | 0.192545886  | 1.5686203874  | 4.5867181656  | 0.973128024  | 1 |
| ## 1508 | -0.134684699 | -0.0806112252 | -0.2887641263 | -0.322960704 | 0 |
| ## 1509 | 0.309413952  | -0.0513139928 | -0.1713769122 | -0.226878416 | 0 |
| ## 1510 | 3.827142741  | 0.0811735948  | 0.1729589158  | 0.421165948  | 1 |
| ## 1511 | -0.134684699 | -0.1151994954 | -0.3044157549 | -0.384289823 | 0 |
| ## 1512 | -0.134684699 | 0.0374847395  | 0.1416556587  | -0.318872096 | 1 |
| ## 1513 | -0.134684699 | 0.0163205881  | -0.1635510980 | -0.439486031 | 0 |
| ## 1514 | -0.134684699 | 0.0024127172  | -0.2261576121 | 0.073634270  | 1 |
| ## 1515 | -0.134684699 | -0.1076106354 | -0.2965899406 | -0.408821471 | 0 |
| ## 1516 | -0.134684699 | -0.0970587942 | -0.2965899406 | -0.390422735 | 0 |
| ## 1517 | -0.134684699 | -0.1146855089 | -0.3591964548 | -0.519213887 | 0 |
| ## 1518 | -0.134684699 | -0.0659172572 | -0.1087703980 | 0.067501358  | 1 |
| ## 1519 | -0.134684699 | -0.0249495071 | 0.2199138014  | 0.034792494  | 1 |
| ## 1520 | -0.134684699 | -0.1098782231 | -0.3670222690 | -0.523302494 | 0 |
| ## 1521 | -0.134684699 | -0.0718432196 | -0.2496350550 | -0.322960704 | 1 |
| ## 1522 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.535568318 | 0 |
| ## 1523 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.541701230 | 0 |
| ## 1524 | -0.134684699 | -0.0454182649 | -0.0852929552 | -0.343403744 | 0 |
| ## 1525 | 0.067886616  | -0.1087293120 | -0.3044157549 | -0.171682209 | 1 |
| ## 1526 | -0.134684699 | -0.1118132312 | -0.2965899406 | -0.480372111 | 0 |
| ## 1527 | -0.002234224 | 0.2030488722  | 5.0171379506  | 2.904995293  | 1 |
| ## 1528 | -0.134684699 | 0.0074014100  | -0.0618155124 | 0.126786174  | 0 |
| ## 1529 | -0.134684699 | -0.1120853417 | -0.2965899406 | -0.322960704 | 0 |
| ## 1530 | -0.134684699 | -0.0975425463 | -0.2652866835 | -0.300473360 | 1 |
| ## 1531 | -0.134684699 | -0.1288957248 | -0.3670222690 | -0.365891087 | 0 |
| ## 1532 | -0.134684699 | -0.0993263819 | -0.0226864410 | -0.349536656 | 0 |
| ## 1533 | -0.134684699 | -0.0099531941 | -0.2496350550 | -0.014270802 | 1 |
| ## 1534 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1535 | -0.134684699 | 1.3500249383  | 0.3842559011  | -0.343403744 | 0 |
| ## 1536 | -0.134684699 | -0.0041784042 | -0.1087703980 | -0.345448048 | 1 |
| ## 1537 | -0.134684699 | -0.0983891123 | -0.1870285408 | -0.320916400 | 0 |
| ## 1538 | -0.064563859 | -0.0431204427 | 3.4363234675  | 6.139084201  | 1 |
| ## 1539 | -0.134684699 | -0.1183438836 | -0.3435448262 | -0.480372111 | 1 |
| ## 1540 | -0.134684699 | -0.0563329201 | -0.1948543550 | -0.298429056 | 1 |
| ## 1541 | -0.134684699 | -0.0989333334 | -0.3200673834 | -0.327049312 | 0 |
| ## 1542 | -0.006129826 | 0.0549602816  | 0.0320942589  | 0.331216572  | 1 |
| ## 1543 | -0.134684699 | -0.1249954740 | -0.3670222690 | -0.513080975 | 1 |
| ## 1544 | -0.134684699 | -0.0904676728 | -0.2261576121 | 0.762564714  | 0 |
| ## 1545 | -0.134684699 | -0.1002636514 | -0.3122415691 | -0.419042991 | 0 |
| ## 1546 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.521258190 | 0 |
| ## 1547 | -0.134684699 | -0.0379503429 | 0.2903461299  | -0.012226498 | 0 |
| ## 1548 | -0.134684699 | -0.1073989939 | -0.2418092407 | -0.132840433 | 1 |
| ## 1549 | -0.134684699 | -0.0542165050 | -0.2496350550 | -0.416998687 | 0 |
| ## 1550 | -0.134684699 | -0.1239070320 | -0.3670222690 | -0.527391102 | 0 |
| ## 1551 | -0.134684699 | -0.0886233682 | -0.1322478409 | -0.216656896 | 1 |
| ## 1552 | -0.134684699 | -0.0594470738 | 0.0242684446  | -0.222789808 | 0 |
| ## 1553 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.533524014 | 0 |
| ## 1554 | -0.134684699 | 0.0896090208  | -0.1635510980 | -0.275941712 | 1 |
| ## 1555 | -0.134684699 | -0.0583888662 | -0.0070348125 | 0.004127934  | 1 |
| ## 1556 | -0.134684699 | -0.1139296463 | -0.3357190120 | -0.386334127 | 1 |
| ## 1557 | -0.134684699 | -0.1047383577 | -0.3200673834 | -0.347492352 | 0 |

|    |      |              |               |               |              |   |
|----|------|--------------|---------------|---------------|--------------|---|
| ## | 1558 | -0.134684699 | -0.0777389475 | -0.2809383120 | -0.496726543 | 0 |
| ## | 1559 | -0.134684699 | -0.0153651699 | -0.0618155124 | 0.194248205  | 1 |
| ## | 1560 | -0.134684699 | -0.1101503336 | -0.2574608692 | -0.369979695 | 0 |
| ## | 1561 | 1.458616602  | -0.1061593793 | -0.2965899406 | -0.408821471 | 0 |
| ## | 1562 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.519213887 | 0 |
| ## | 1563 | -0.134684699 | 0.0224581920  | 0.2590428728  | 0.535646971  | 1 |
| ## | 1564 | -0.134684699 | -0.1109061961 | -0.2574608692 | -0.224834112 | 1 |
| ## | 1565 | -0.134684699 | -0.0830904543 | -0.2731124978 | -0.468106287 | 1 |
| ## | 1566 | -0.134684699 | -0.0651613947 | -0.3044157549 | -0.345448048 | 0 |
| ## | 1567 | -0.134684699 | -0.0305126554 | 0.0790491445  | -0.051068273 | 1 |
| ## | 1568 | -0.134684699 | -0.1175880211 | -0.3122415691 | -0.437441727 | 0 |
| ## | 1569 | -0.134684699 | 0.0553835646  | 1.0337984858  | 0.186070989  | 1 |
| ## | 1570 | -0.134684699 | -0.0465369415 | -0.1713769122 | -0.384289823 | 1 |
| ## | 1571 | -0.134684699 | -0.1007474035 | -0.2418092407 | -0.292296144 | 0 |
| ## | 1572 | -0.134684699 | -0.0928561985 | -0.3044157549 | -0.464017679 | 0 |
| ## | 1573 | 0.138007456  | -0.0072623234 | 0.5172947438  | 6.658337414  | 1 |
| ## | 1574 | -0.134684699 | -0.0643752976 | 0.5016431152  | 0.472273548  | 1 |
| ## | 1575 | -0.134684699 | -0.0934004195 | -0.2731124978 | -0.423131599 | 0 |
| ## | 1576 | -0.134684699 | -0.1039824952 | -0.3513706405 | -0.461973375 | 0 |
| ## | 1577 | -0.134684699 | -0.0824555298 | 0.1573072872  | 0.314862140  | 0 |
| ## | 1578 | -0.134684699 | -0.0915258804 | -0.2183317979 | -0.414954383 | 0 |
| ## | 1579 | -0.134684699 | -0.0163326740 | -0.2339834264 | 0.680792554  | 0 |
| ## | 1580 | -0.134684699 | -0.0515861033 | -0.3278931977 | -0.443574639 | 1 |
| ## | 1581 | -0.134684699 | -0.0793111416 | -0.0931187695 | 1.803115443  | 0 |
| ## | 1582 | -0.134684699 | -0.0483207771 | -0.3200673834 | -0.517169583 | 0 |
| ## | 1583 | -0.134684699 | -0.0764993329 | -0.2418092407 | -0.421087295 | 1 |
| ## | 1584 | -0.134684699 | -0.0575725347 | -0.2731124978 | -0.484460719 | 0 |
| ## | 1585 | -0.134684699 | -0.0919491634 | -0.2652866835 | -0.486505023 | 1 |
| ## | 1586 | -0.134684699 | -0.1055546893 | -0.2965899406 | -0.335226528 | 0 |
| ## | 1587 | -0.134684699 | 0.1117104418  | 2.4502708691  | 1.171425511  | 1 |
| ## | 1588 | -0.134684699 | -0.1228488244 | -0.3670222690 | -0.511036671 | 0 |
| ## | 1589 | -0.134684699 | -0.0939748750 | -0.2183317979 | -0.433353119 | 0 |
| ## | 1590 | -0.134684699 | 0.2791188791  | 0.3686042726  | 0.376191260  | 1 |
| ## | 1591 | -0.134684699 | -0.0980867673 | -0.1635510980 | 0.231045677  | 1 |
| ## | 1592 | -0.134684699 | -0.1136273013 | -0.3513706405 | -0.476283503 | 0 |
| ## | 1593 | -0.134684699 | 0.0826853199  | 0.2433912442  | -0.349536656 | 1 |
| ## | 1594 | -0.134684699 | -0.1216394443 | -0.3513706405 | -0.439486031 | 1 |
| ## | 1595 | -0.134684699 | 0.0060710919  | 0.1651331015  | 0.609241915  | 1 |
| ## | 1596 | 2.537698412  | 0.2580756657  | 0.4468624153  | 2.404140816  | 1 |
| ## | 1597 | 0.371743588  | -0.0566352651 | -0.3357190120 | -0.263675888 | 0 |
| ## | 1598 | -0.134684699 | -0.0728409582 | 0.0086168160  | -0.349536656 | 0 |
| ## | 1599 | 0.379534792  | 0.0403570172  | 5.8545000777  | 4.411647332  | 1 |
| ## | 1600 | -0.134684699 | -0.1163484065 | -0.3513706405 | -0.517169583 | 0 |
| ## | 1601 | 0.352265577  | 0.0560487237  | 4.2658597804  | 4.385071380  | 1 |
| ## | 1602 | -0.134684699 | -0.0646171736 | -0.1400736551 | 0.443653292  | 0 |
| ## | 1603 | -0.134684699 | -0.0535211114 | -0.2339834264 | -0.408821471 | 0 |
| ## | 1604 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1605 | -0.134684699 | -0.1020172526 | -0.2183317979 | -0.237099936 | 0 |
| ## | 1606 | -0.134684699 | -0.1246628945 | -0.3513706405 | -0.447663247 | 0 |
| ## | 1607 | -0.134684699 | -0.1156530129 | -0.3044157549 | -0.220745504 | 0 |
| ## | 1608 | -0.134684699 | -0.1213975683 | -0.3357190120 | -0.449707551 | 1 |
| ## | 1609 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## | 1610 | -0.134684699 | -0.1300446359 | -0.3748480833 | -0.502859455 | 0 |
| ## | 1611 | -0.134684699 | -0.0306940624 | -0.2339834264 | -0.494682239 | 0 |

|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1612 | -0.033399041 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## 1613 | -0.134684699 | -0.0743224488 | 0.0399200731  | -0.222789808 | 0 |
| ## 1614 | -0.134684699 | -0.1241186735 | -0.3044157549 | -0.171682209 | 1 |
| ## 1615 | -0.134684699 | -0.1175275521 | -0.3670222690 | -0.508992367 | 1 |
| ## 1616 | -0.134684699 | -0.0898932173 | -0.2418092407 | -0.042891057 | 1 |
| ## 1617 | -0.134684699 | -0.0731130687 | -0.1635510980 | -0.116486001 | 1 |
| ## 1618 | -0.134684699 | -0.0439367743 | 0.0868749588  | -0.014270802 | 1 |
| ## 1619 | -0.134684699 | -0.0814880257 | -0.2731124978 | -0.406777167 | 0 |
| ## 1620 | -0.134684699 | -0.0988123953 | -0.2965899406 | -0.335226528 | 1 |
| ## 1621 | 0.515880869  | -0.0575120657 | 0.1886105443  | 1.439229334  | 1 |
| ## 1622 | -0.134684699 | -0.0014572991 | -0.0774671410 | -0.439486031 | 0 |
| ## 1623 | -0.134684699 | -0.0044807492 | 0.2355654299  | -0.069467009 | 1 |
| ## 1624 | -0.006129826 | -0.0661591332 | 0.0477458874  | 1.590507829  | 1 |
| ## 1625 | -0.134684699 | -0.0830904543 | -0.2731124978 | -0.468106287 | 1 |
| ## 1626 | -0.134684699 | -0.0910723628 | 0.1260040301  | -0.008137890 | 1 |
| ## 1627 | -0.134684699 | -0.1173763795 | -0.3435448262 | -0.502859455 | 0 |
| ## 1628 | -0.134684699 | -0.1087897810 | -0.3513706405 | -0.490593631 | 0 |
| ## 1629 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1630 | -0.134684699 | -0.0614123164 | 0.1964363586  | 0.028659582  | 0 |
| ## 1631 | -0.134684699 | -0.0861139045 | -0.3591964548 | -0.537612622 | 0 |
| ## 1632 | -0.134684699 | -0.1134156598 | -0.2339834264 | 0.124741870  | 1 |
| ## 1633 | -0.134684699 | -0.1222743689 | -0.3435448262 | -0.486505023 | 1 |
| ## 1634 | -0.134684699 | -0.1190695117 | -0.3513706405 | -0.386334127 | 0 |
| ## 1635 | -0.134684699 | -0.0450856854 | -0.1948543550 | -0.382245519 | 1 |
| ## 1636 | 0.169172273  | 0.2942361301  | 0.7598949862  | 0.222868461  | 1 |
| ## 1637 | -0.134684699 | -0.0760458154 | -0.3044157549 | -0.443574639 | 0 |
| ## 1638 | -0.134684699 | -0.0942772200 | -0.2965899406 | -0.488549327 | 1 |
| ## 1639 | -0.134684699 | -0.0985100503 | -0.3357190120 | -0.500815151 | 0 |
| ## 1640 | -0.134684699 | -0.1245419565 | -0.3357190120 | -0.394511343 | 1 |
| ## 1641 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.525346798 | 0 |
| ## 1642 | 0.192545886  | 1.5686203874  | 4.5867181656  | 0.973128024  | 1 |
| ## 1643 | -0.134684699 | 0.0078246930  | -0.1948543550 | -0.226878416 | 1 |
| ## 1644 | -0.134684699 | -0.0788576241 | 0.1103524016  | -0.245277152 | 0 |
| ## 1645 | -0.134684699 | -0.0813368532 | 0.0555717017  | 0.343482396  | 0 |
| ## 1646 | -0.134684699 | -0.1083967325 | -0.3200673834 | -0.410865775 | 0 |
| ## 1647 | 3.944010807  | 0.1185434392  | 0.3059977584  | 0.437520380  | 1 |
| ## 1648 | -0.134684699 | 0.1141896709  | 0.1025265873  | -0.398599951 | 0 |
| ## 1649 | 0.071782218  | -0.0025759756 | 0.1573072872  | 0.065457054  | 0 |
| ## 1650 | -0.134684699 | -0.1056756273 | -0.2887641263 | -0.392467039 | 0 |
| ## 1651 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1652 | -0.134684699 | -0.1264467301 | -0.2887641263 | -0.161460689 | 1 |
| ## 1653 | -0.134684699 | -0.0584191007 | 0.0242684446  | -0.212568288 | 1 |
| ## 1654 | -0.134684699 | -0.0873837536 | -0.2183317979 | -0.306606272 | 1 |
| ## 1655 | 0.017243787  | 0.1848779365  | 3.7180527813  | 1.725431892  | 1 |
| ## 1656 | -0.134684699 | -0.0774970715 | -0.1400736551 | 0.488627979  | 0 |
| ## 1657 | -0.134684699 | -0.0974518428 | -0.3513706405 | -0.513080975 | 0 |
| ## 1658 | -0.134684699 | -0.1047383577 | 0.0086168160  | -0.247321456 | 0 |
| ## 1659 | 0.056199809  | -0.0575120657 | 2.0981092268  | 1.502602757  | 1 |
| ## 1660 | 0.761303808  | -0.0854789800 | -0.1478994694 | 0.509071019  | 0 |
| ## 1661 | -0.134684699 | -0.0941260475 | -0.2965899406 | -0.470150591 | 0 |
| ## 1662 | -0.134684699 | -0.0503767232 | 0.0086168160  | -0.239144240 | 0 |
| ## 1663 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 1664 | -0.134684699 | -0.0073530269 | 0.7051142863  | -0.151239169 | 1 |
| ## 1665 | -0.134684699 | -0.0468090520 | -0.2731124978 | -0.508992367 | 1 |



|         |              |               |               |              |   |
|---------|--------------|---------------|---------------|--------------|---|
| ## 1666 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 1667 | -0.134684699 | -0.0872023466 | 0.2355654299  | -0.049023969 | 0 |
| ## 1668 | -0.134684699 | -0.1111783066 | -0.3591964548 | -0.318872096 | 1 |
| ## 1669 | -0.134684699 | -0.1187974011 | -0.3513706405 | -0.457884767 | 0 |
| ## 1670 | -0.134684699 | -0.0878977401 | -0.2418092407 | -0.038802449 | 1 |
| ## 1671 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1672 | -0.134684699 | -0.0914049424 | -0.1557252837 | -0.357713871 | 0 |
| ## 1673 | -0.134684699 | -0.1201277192 | -0.3513706405 | -0.435397423 | 0 |
| ## 1674 | -0.134684699 | -0.1223953069 | -0.3513706405 | -0.494682239 | 0 |
| ## 1675 | -0.013921030 | -0.0310871110 | -0.0070348125 | 1.245020455  | 1 |
| ## 1676 | -0.134684699 | -0.0997194304 | -0.3435448262 | -0.464017679 | 1 |
| ## 1677 | -0.134684699 | -0.0810949772 | -0.2965899406 | -0.416998687 | 0 |
| ## 1678 | 0.352265577  | 0.0560487237  | 4.2658597804  | 4.385071380  | 1 |
| ## 1679 | -0.134684699 | -0.0888652442 | -0.3044157549 | -0.439486031 | 0 |
| ## 1680 | -0.134684699 | -0.1112387756 | -0.2731124978 | -0.165549297 | 0 |
| ## 1681 | -0.134684699 | -0.1261443851 | -0.3670222690 | -0.506948063 | 0 |
| ## 1682 | 0.831424648  | 0.0550812196  | -0.0618155124 | 0.053191230  | 1 |
| ## 1683 | -0.134684699 | -0.0943679236 | -0.3044157549 | -0.447663247 | 0 |
| ## 1684 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 1685 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.539656926 | 0 |
| ## 1686 | -0.134684699 | -0.1149878539 | -0.2731124978 | -0.408821471 | 0 |
| ## 1687 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 1688 | -0.134684699 | -0.0725083786 | -0.3044157549 | -0.427220207 | 1 |
| ## 1689 | -0.134684699 | -0.0899536863 | -0.2965899406 | -0.145106257 | 1 |
| ## 1690 | -0.084041870 | 0.0645748532  | 4.8449700366  | 2.328501568  | 1 |
| ## 1691 | -0.134684699 | -0.0609285644 | 0.0086168160  | -0.363846783 | 0 |
| ## 1692 | 0.289935941  | 0.0527229285  | 0.1338298444  | 0.394589996  | 1 |
| ## 1693 | -0.134684699 | 0.0045896013  | -0.3200673834 | -0.525346798 | 0 |
| ## 1694 | -0.134684699 | 0.0438944539  | 3.4754525388  | 2.371431952  | 1 |
| ## 1695 | -0.134684699 | -0.1015335005 | -0.2809383120 | -0.108308785 | 0 |
| ## 1696 | -0.134684699 | -0.0094089731 | -0.2105059836 | -0.269808800 | 1 |
| ## 1697 | -0.134684699 | -0.0729921307 | 0.1103524016  | 0.633773563  | 1 |
| ## 1698 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.533524014 | 0 |
| ## 1699 | -0.134684699 | -0.0949423791 | -0.2887641263 | -0.331137920 | 0 |
| ## 1700 | -0.134684699 | -0.0746852628 | 0.2668686870  | 0.423210252  | 1 |
| ## 1701 | -0.134684699 | -0.0313289870 | -0.1322478409 | -0.265720192 | 0 |
| ## 1702 | -0.134684699 | -0.0902560313 | -0.3513706405 | -0.441530335 | 0 |
| ## 1703 | -0.134684699 | -0.0953958966 | -0.2496350550 | -0.269808800 | 0 |
| ## 1704 | -0.134684699 | -0.1072780559 | -0.3513706405 | -0.529435406 | 0 |
| ## 1705 | -0.134684699 | -0.0263705287 | -0.2339834264 | -0.355669567 | 1 |
| ## 1706 | -0.134684699 | -0.0917072874 | -0.2965899406 | -0.277986016 | 1 |
| ## 1707 | -0.134684699 | 0.3397995245  | 0.8146756861  | 18.034889105 | 1 |
| ## 1708 | -0.134684699 | -0.1002938859 | -0.2183317979 | 1.437185030  | 0 |
| ## 1709 | -0.134684699 | -0.0678824998 | 0.0086168160  | -0.363846783 | 0 |
| ## 1710 | -0.134684699 | -0.1213975683 | -0.3748480833 | -0.539656926 | 0 |
| ## 1711 | -0.134684699 | -0.1314656575 | -0.3826738976 | -0.537612622 | 0 |
| ## 1712 | -0.134684699 | -0.1025917081 | -0.2887641263 | -0.275941712 | 0 |
| ## 1713 | -0.134684699 | -0.1054942203 | -0.2496350550 | -0.331137920 | 0 |
| ## 1714 | -0.134684699 | -0.1201277192 | -0.3670222690 | -0.525346798 | 1 |
| ## 1715 | -0.134684699 | -0.1087897810 | -0.3670222690 | -0.504903759 | 0 |
| ## 1716 | -0.134684699 | 0.0163205881  | -0.1635510980 | -0.439486031 | 0 |
| ## 1717 | -0.068459461 | -0.0128557063 | 0.4155591582  | 1.555754661  | 1 |
| ## 1718 | -0.033399041 | 0.0394197476  | 0.2042621729  | 0.744165978  | 1 |
| ## 1719 | -0.134684699 | -0.0155768115 | -0.1635510980 | -0.369979695 | 1 |

```
## 1720 -0.134684699 -0.1082153255 -0.3435448262 -0.500815151 0
## 1721 -0.029503439 -0.0132185203 0.5407721866 2.062742050 1
## 1722 -0.134684699 -0.1070966489 -0.3044157549 -0.433353119 0
## 1723 -0.134684699 -0.1149273849 -0.3044157549 -0.316827792 0
## 1724 -0.134684699 -0.0519186828 -0.2574608692 -0.406777167 0
## [ reached 'max' / getOption("max.print") -- omitted 1343 rows ]
```

## Standardizing Test Data

```
test_Standardized = data.frame(scale(test))
test_Standardized$V58 = test$V58
head(test_Standardized)
```

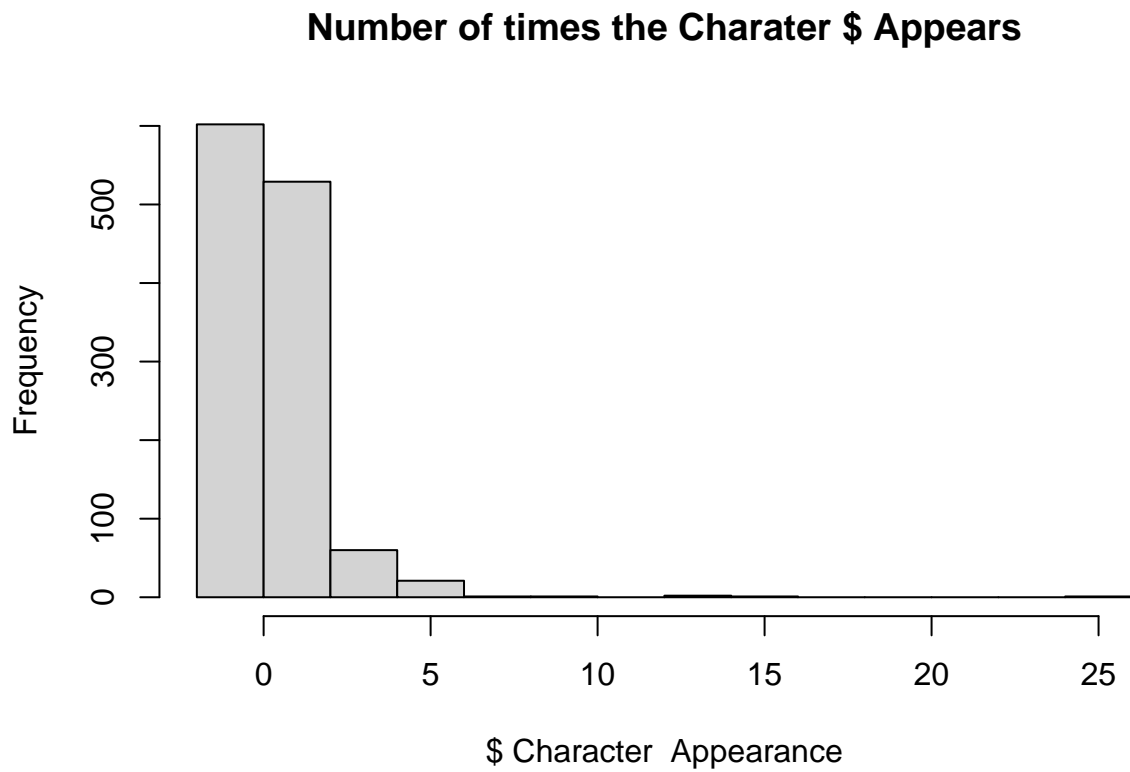
```
##          V1          V2          V3          V4          V5          V6
## 1  0.07485039 -0.0576849 -0.10401124 -0.04742051  1.5562245  0.06394306
## 2 -0.34689615 -0.1614636  0.05786903 -0.04742051  0.4979197  1.73408373
## 3 -0.34689615 -0.1614636 -0.58965203 -0.04742051 -0.4696733 -0.32147402
## 4 -0.34689615 -0.1614636  0.21974929 -0.04742051  0.1350723  0.32088777
## 5  1.44552664  0.2104101 -0.00283607 -0.04742051 -0.2580123 -0.22511975
## 6 -0.34689615 -0.1614636 -0.58965203 -0.04742051 -0.4696733 -0.32147402
##          V7          V8          V9          V10          V11          V12          V13
## 1 -0.3277633  0.03652007 -0.3128101 -0.3994284  1.7735659  0.4143739 -0.3050458
## 2  1.5704487  0.55001036  0.7189188 -0.3994284 -0.3083872 -0.2453752  0.7448832
## 3 -0.3277633 -0.27157410 -0.3128101 -0.3994284 -0.3083872 -0.6437142 -0.3050458
## 4 -0.3277633 -0.27157410 -0.3128101  1.1651426  0.8482534 -0.1457904 -0.3050458
## 5 -0.3277633  0.19056716  1.4282323  0.5610013  1.3687417  0.1654120  1.8276223
## 6 -0.3277633 -0.27157410 -0.3128101 -0.3994284 -0.3083872  0.8874015 -0.3050458
##          V14          V15          V16          V17          V18          V19
## 1 -0.1624653 -0.2128542 -0.006571992  0.2171750 -0.38011509  0.3627604
## 2 -0.1624653 -0.2128542  0.091783474  0.3935947  0.17887501  0.3174647
## 3 -0.1624653 -0.2128542 -0.301638388 -0.3120840 -0.38011509 -0.9564764
## 4 -0.1624653 -0.2128542 -0.055749724  0.5700144 -0.03074628 -0.5035195
## 5  3.9309671 -0.1038937 -0.043455291  0.6361718 -0.32770977  0.7590976
## 6 -0.1624653 -0.2128542 -0.301638388 -0.3120840 -0.38011509  0.0909863
##          V20          V21          V22          V23          V24          V25          V26
## 1 -0.1590293 -0.07702727 -0.1324636 -0.3072921 -0.2285315 -0.3327942 -0.3255686
## 2 -0.1590293  1.97663028 -0.1324636 -0.3072921  0.5495345 -0.3327942 -0.3255686
## 3 -0.1590293 -0.68153131 -0.1324636 -0.3072921 -0.2285315  0.8836259  7.3891039
## 4 -0.1590293 -0.35029622 -0.1324636  0.3076930 -0.2285315 -0.3327942 -0.3255686
## 5 -0.1590293  0.43638711 -0.1324636  1.2609198  1.0844549 -0.3327942 -0.3255686
## 6 -0.1590293 -0.17639780 -0.1324636 -0.3072921  1.2546569 -0.3327942 -0.3255686
##          V27          V28          V29          V30          V31          V32          V33
## 1 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 2 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 3 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 4 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 5 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 6 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
##          V34          V35          V36          V37          V38          V39          V40
## 1 -0.1437275 -0.2215117  2.0786000 -0.3262825 -0.05147839 -0.2160424  0.1232674
## 2 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424 -0.1910567
## 3 -0.1437275 -0.2215117 -0.2414809  4.6722887 -0.05147839 -0.2160424 -0.1910567
## 4 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424  0.3328167
```

```
## 5 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424 -0.1910567
## 6 -0.1437275 -0.2215117 -0.2414809 1.1119856 -0.05147839 -0.2160424 -0.1910567
##      V41      V42      V43      V44      V45      V46      V47
## 1 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.1811794 -0.1994938 -0.05346003
## 2 -0.1293373 -0.1815671 -0.2201468 -0.1073966 0.3562613 -0.1994938 -0.05346003
## 3 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.3052042 -0.1994938 -0.05346003
## 4 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.3052042 -0.1994938 -0.05346003
## 5 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.2741980 -0.1994938 -0.05346003
## 6 -0.1293373 1.5865197 -0.2201468 -0.1073966 0.9660498 2.0354888 -0.05346003
##      V48      V49      V50      V51      V52      V53      V54
## 1 -0.1171922 0.0852166 -0.55177374 -0.1636925 -0.3142514 -0.1271942 -0.1051366
## 2 -0.1171922 -0.1842956 0.08437623 -0.1636925 -0.3669454 0.3411686 -0.1051366
## 3 -0.1171922 -0.1842956 -0.64532520 -0.1636925 -0.3669454 -0.2941757 -0.1051366
## 4 -0.1171922 -0.1842956 -0.50499801 -0.1636925 -0.3669454 0.9357857 -0.1051366
## 5 -0.1171922 -0.1312768 -0.28047449 -0.1636925 0.2024071 1.7829114 0.1556432
## 6 -0.1171922 -0.1842956 -0.18692302 -0.1636925 -0.2409939 -0.2941757 -0.1051366
##      V55      V56      V57 V58
## 1 -0.097670106 0.05930975 -0.07587656 1
## 2 -0.110805982 -0.24996062 -0.22013679 1
## 3 -0.112691934 -0.33037091 -0.38363171 0
## 4 -0.111354224 -0.29944387 -0.16380661 1
## 5 -0.004710206 4.20353264 2.78047594 1
## 6 -0.113547192 -0.27470224 -0.32867544 0
```

## A) Visualizing Standardized columns

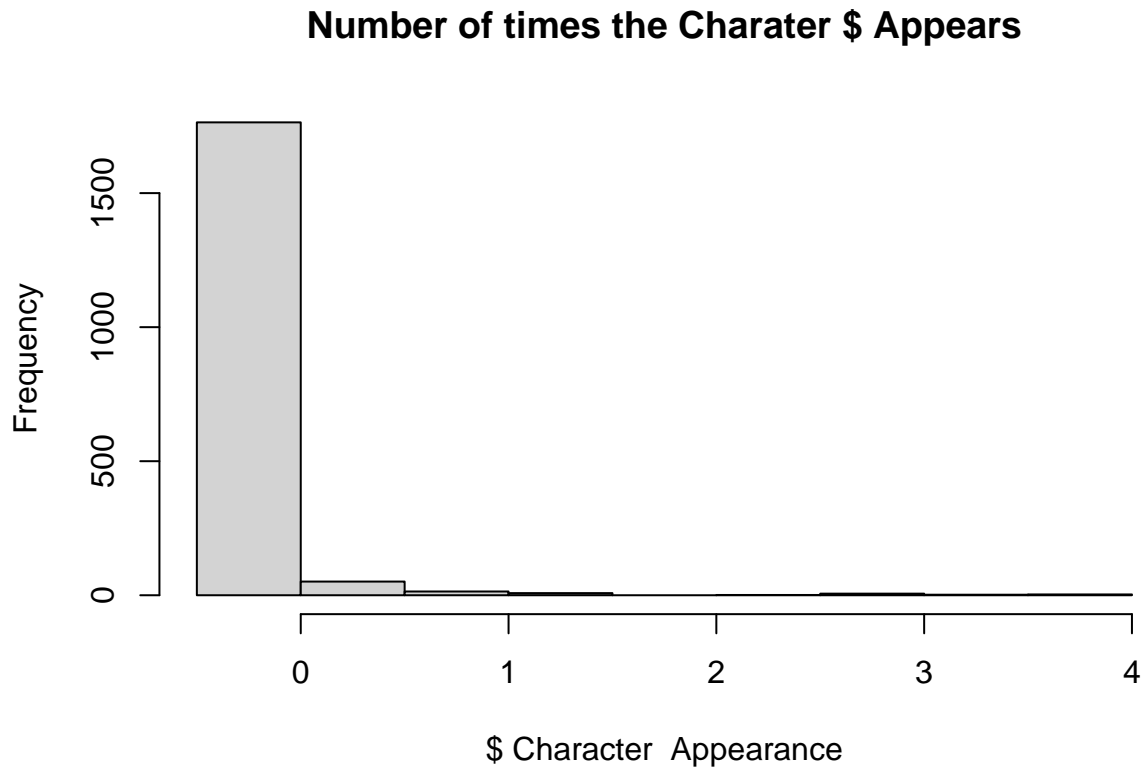
Training Standardized Spam Data V\$58 == 1

```
spamStandTrain = train_Standardized[train_Standardized$V58 == 1,]
hist(spamStandTrain$V53,main="Number of times the Charater $ Appears", xlab="$ Character Appearance")
```



Training Standardized Not Spam Data V\$58 == 0

```
NotspamStandTrain = train_Standardized[train_Standardized$V58 == 0,]  
hist(NotspamStandTrain$V53,main="Number of times the Charater $ Appears", xlab="$ Character Appearance")
```



# Log Transformation

Log Transformation on Train Data

```
train_Log = data.frame(log(train+1))
train_Log$V58 = train$V58
head(train_Log)
```

```
##           V1 V2           V3           V4           V5           V6 V7           V8           V9
## 1 0.00000000 0 0.0000000 0.000000 0.0000000 0.0000000 0 0.0000000 0.000000
## 2 0.00000000 0 0.4637340 0.10436 0.0000000 0.0000000 0 0.0000000 0.10436
## 3 0.05826891 0 0.3364722 0.000000 0.1222176 0.1222176 0 0.1222176 0.000000
## 4 0.00000000 0 0.0000000 0.000000 0.0000000 0.0000000 0 0.0000000 0.000000
## 5 0.00000000 0 0.0000000 0.000000 0.0000000 0.3646431 0 0.0000000 0.000000
## 6 0.00000000 0 0.4252677 0.000000 0.0000000 0.4252677 0 0.0000000 0.000000
##           V10 V11           V12           V13           V14 V15           V16           V17 V18
## 1 0.00000000 0 0.0000000 0.0000000 0.00000000 0 0.000000 0.0000000 0
## 2 0.2070142 0 0.1043600 0.0000000 0.00000000 0 0.10436 0.0000000 0
## 3 0.00000000 0 0.8754687 0.1823216 0.05826891 0 0.000000 0.1823216 0
## 4 0.00000000 0 0.0000000 0.0000000 0.00000000 0 0.000000 0.0000000 0
## 5 0.00000000 0 0.3646431 0.3646431 0.00000000 0 0.000000 0.0000000 0
## 6 0.4252677 0 0.0000000 0.4252677 0.00000000 0 0.000000 0.0000000 0
##           V19 V20           V21 V22 V23 V24           V25           V26           V27           V28 V29
## 1 1.20896035 0 0.0000000 0 0 0 0.7747272 0.000000 0.7747272 1.20896 0
## 2 0.66782937 0 0.3852624 0 0 0 0.2070142 0.000000 0.5364934 0.00000 0
## 3 0.05826891 0 0.0000000 0 0 0 1.2641267 0.000000 0.0000000 0.00000 0
## 4 0.00000000 0 0.0000000 0 0 0 1.2697605 1.269761 1.2697605 0.00000 0
```

```
## 5 0.84156719 0 0.0000000 0 0 0 0.0000000 0.000000 0.6312718 0.00000 0
## 6 1.14740245 0 0.4252677 0 0 0 0.0000000 0.000000 0.0000000 0.00000 0
##      V30 V31 V32      V33      V34      V35      V36      V37 V38 V39 V40 V41
## 1 0 0 0 0.7747272 0.00000 0.7747272 0.00000000 0.00000000 0 0 0 0
## 2 0 0 0 0.0000000 0.10436 0.0000000 0.38526240 0.00000000 0 0 0 0
## 3 0 0 0 0.0000000 0.00000 0.0000000 0.05826891 0.05826891 0 0 0 0
## 4 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
## 5 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
## 6 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
##      V42 V43 V44      V45      V46 V47 V48      V49      V50      V51
## 1 0 0 0 0.00000000 0.0000000 0 0 0.00000000 0.47623418 0.0000000
## 2 0 0 0 0.00000000 0.0000000 0 0 0.20457217 0.27914574 0.1070591
## 3 0 0 0 0.05826891 0.0000000 0 0 0.02761517 0.08157999 0.0000000
## 4 0 0 0 1.26976054 0.0000000 0 0 0.00000000 0.00000000 0.0000000
## 5 0 0 0 0.36464311 0.3646431 0 0 0.00000000 0.13976194 0.0000000
## 6 0 0 0 0.72754861 0.0000000 0 0 0.00000000 0.09621886 0.0000000
##      V52      V53 V54      V55      V56      V57 V58
## 1 0.18481844 0.00000000 0 1.2644092 2.772589 4.127134 0
## 2 0.05448819 0.07232066 0 1.2658202 3.663562 6.400257 0
## 3 0.00000000 0.00000000 0 1.2062702 3.135494 6.501290 0
## 4 0.00000000 0.00000000 0 0.9162907 1.609438 3.218876 0
## 5 0.00000000 0.00000000 0 0.9604990 2.484907 4.276666 0
## 6 0.00000000 0.00000000 0 1.0497721 2.833213 3.970292 0
```

Log Transformation on Test Data

```
test_Log = data.frame(log(test+1))
test_Log$V58 = test$V58
head(test_Log)
```

```
##      V1      V2      V3 V4      V5      V6      V7      V8
## 1 0.1133287 0.1133287 0.2151114 0 0.8501509 0.1133287 0.0000000 0.1133287
## 2 0.0000000 0.0000000 0.2776317 0 0.4946962 0.4946962 0.4946962 0.2776317
## 3 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## 4 0.0000000 0.0000000 0.3364722 0 0.3364722 0.1823216 0.0000000 0.0000000
## 5 0.4121097 0.3576744 0.2546422 0 0.1310283 0.0295588 0.0000000 0.1655144
## 6 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
##      V9      V10      V11      V12      V13      V14      V15
## 1 0.0000000 0.0000000 0.3074847 0.6151856 0.0000000 0.0000000 0.0000000
## 2 0.2776317 0.0000000 0.0000000 0.2776317 0.2776317 0.0000000 0.0000000
## 3 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## 4 0.0000000 0.6981347 0.1823216 0.3364722 0.0000000 0.0000000 0.0000000
## 5 0.4317824 0.4824261 0.2546422 0.5007753 0.5007753 0.7884574 0.0295588
## 6 0.0000000 0.0000000 0.0000000 0.8020016 0.0000000 0.0000000 0.0000000
##      V16      V17      V18      V19 V20      V21 V22      V23      V24
## 1 0.2151114 0.2151114 0.0000000 1.2029723 0 0.5481214 0 0.0000000 0.0000000
## 2 0.2776317 0.2776317 0.2776317 1.1786550 0 1.4374626 0 0.0000000 0.2776317
## 3 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0.0000000
## 4 0.1823216 0.3364722 0.1823216 0.5877867 0 0.3364722 0 0.1823216 0.0000000
## 5 0.1906204 0.3576744 0.0295588 1.3937664 0 0.8544153 0 0.4121097 0.4317824
## 6 0.0000000 0.0000000 0.0000000 1.0473190 0 0.4762342 0 0.0000000 0.4762342
##      V25      V26 V27 V28 V29 V30 V31 V32 V33 V34 V35      V36      V37 V38
## 1 0.0000000 0.000000 0 0 0 0 0 0 0 0 0 0.6830968 0.0000000 0
```

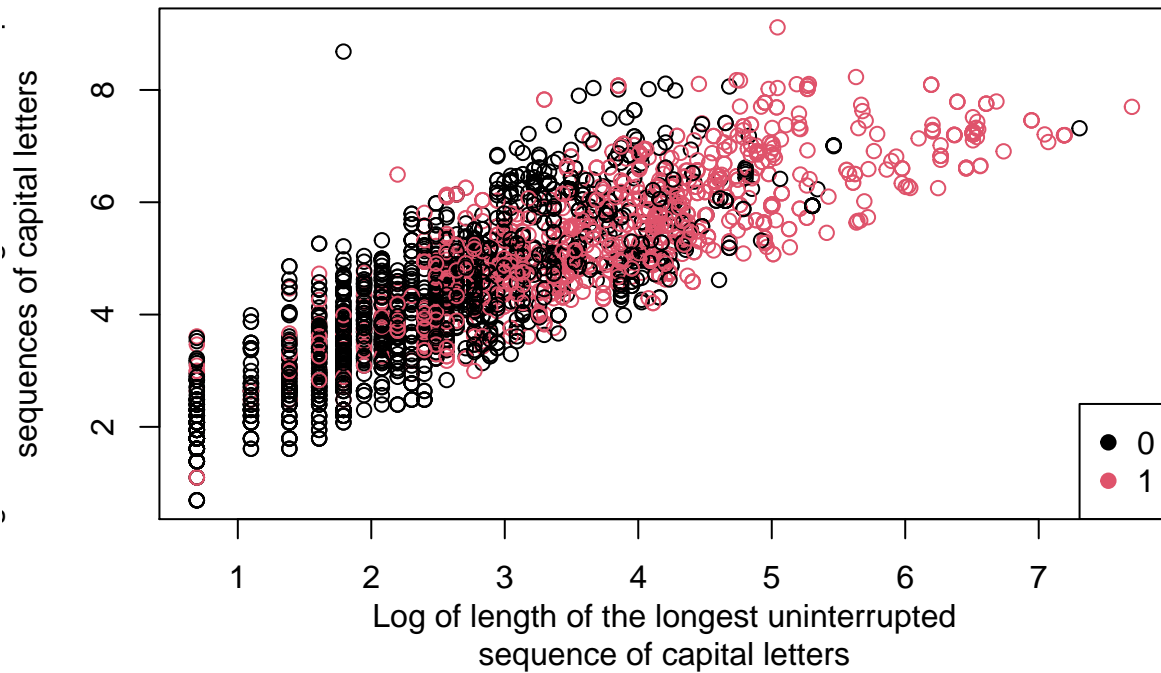
```
## 2 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 3 1.137833 1.998774 0 0 0 0 0 0 0 0 0 0.000000 1.137833 0
## 4 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 5 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 6 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.4762342 0
## V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49
## 1 0 0.1133287 0 0.0000000 0 0 0.1133287 0.000000 0 0 0.05921186
## 2 0 0.0000000 0 0.0000000 0 0 0.4946962 0.000000 0 0 0.00000000
## 3 0 0.0000000 0 0.0000000 0 0 0.0000000 0.000000 0 0 0.00000000
## 4 0 0.1823216 0 0.0000000 0 0 0.0000000 0.000000 0 0 0.00000000
## 5 0 0.0000000 0 0.0000000 0 0 0.0295588 0.000000 0 0 0.01192857
## 6 0 0.0000000 0 0.8020016 0 0 0.8020016 1.047319 0 0 0.00000000
## V50 V51 V52 V53 V54 V55 V56 V57 V58
## 1 0.01980263 0 0.04018179 0.04018179 0.000000 1.2092588 4.248495 5.541264 1
## 2 0.14496577 0 0.00000000 0.14496577 0.000000 1.0123279 2.995732 5.010635 1
## 3 0.00000000 0 0.00000000 0.00000000 0.000000 0.9805792 1.945910 3.433987 0
## 4 0.02955880 0 0.00000000 0.26390154 0.000000 1.0032021 2.484907 5.252273 1
## 5 0.07510747 0 0.36672428 0.41210965 0.124869 2.0268316 6.606650 7.755339 1
## 6 0.09349034 0 0.09349034 0.00000000 0.000000 0.9658425 2.772589 4.262680 0
```

## Visualizing Log Transformation

0 = Not Spam, 1 = Spam

```
plot(train_Log$V56, train_Log$V57, col=factor(train_Log$V58),xlab="Log of length of the longest uninter-
sequence of capital letters", ylab="Log of sum of the lengths of uninterrupted
sequences of capital letters",main="Log of Longest Capital Letters vs. Sum of number of capital letters",
legend("bottomright",
      legend = levels(factor(train_Log$V58)),
      pch = 19,
      col = factor(levels(factor(train_Log$V58))))
```

## Log of Longest Capital Letters vs. Sum of number of capital letters



## Discretize Transformation

Discretize Transformation on Train Data

```
train_Discretize = data.frame(train>0)
train_Discretize$V58 = train$V58
train_Discretize = train_Discretize*1
head(train_Discretize)
```

```
##      V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21
## 1    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
## 2    0 0 1 1 0 0 0 0 1 1 0 1 0 0 0 1 0 0 1 0 1
## 3    1 0 1 0 1 1 0 1 0 0 0 1 1 1 0 0 1 0 1 0 0
## 4    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5    0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0
## 6    0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 1 0 1
##      V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38 V39 V40
## 1    0 0 0 1 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
## 2    0 0 0 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0
## 3    0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
## 4    0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5    0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 6    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##      V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56 V57 V58
```



```
## 1  0  0  0  0  0  0  0  0  0  0  1  0  1  0  0  1  1  1  0
## 2  0  0  0  0  0  0  0  0  0  1  1  1  1  1  0  1  1  1  0
## 3  0  0  0  0  1  0  0  0  0  1  1  0  0  0  0  1  1  1  0
## 4  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  1  1  1  0
## 5  0  0  0  0  1  1  0  0  0  0  1  0  0  0  0  1  1  1  0
## 6  0  0  0  0  1  0  0  0  0  0  1  0  0  0  0  1  1  1  0
```

Discretize Transformation on Test Data

```
test_Discretize = data.frame(test>0)
test_Discretize$V58 = test$V58
test_Discretize = test_Discretize*1
head(test_Discretize)
```

```
##   V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21
## 1  1  1  1  0  1  1  0  1  0  0  1  1  0  0  0  1  1  0  1  0  1
## 2  0  0  1  0  1  1  1  1  1  0  0  1  1  0  0  1  1  1  1  0  1
## 3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 4  0  0  1  0  1  1  0  0  0  1  1  1  0  0  0  1  1  1  1  0  1
## 5  1  1  1  0  1  1  0  1  1  1  1  1  1  1  1  1  1  1  1  0  1
## 6  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  1  0  1
##   V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38 V39 V40
## 1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  1
## 2  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 3  0  0  0  1  1  0  0  0  0  0  0  0  0  0  0  1  0  0  0
## 4  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1
## 5  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 6  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0
##   V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56 V57 V58
## 1  0  0  0  0  1  0  0  0  1  1  0  1  1  0  1  1  1  1
## 2  0  0  0  0  1  0  0  0  0  1  0  0  1  0  1  1  1  1
## 3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0
## 4  0  0  0  0  0  0  0  0  0  1  0  0  1  0  1  1  1  1
## 5  0  0  0  0  1  0  0  0  1  1  0  1  1  1  1  1  1  1
## 6  0  1  0  0  1  1  0  0  0  1  0  1  0  0  1  1  1  0
```

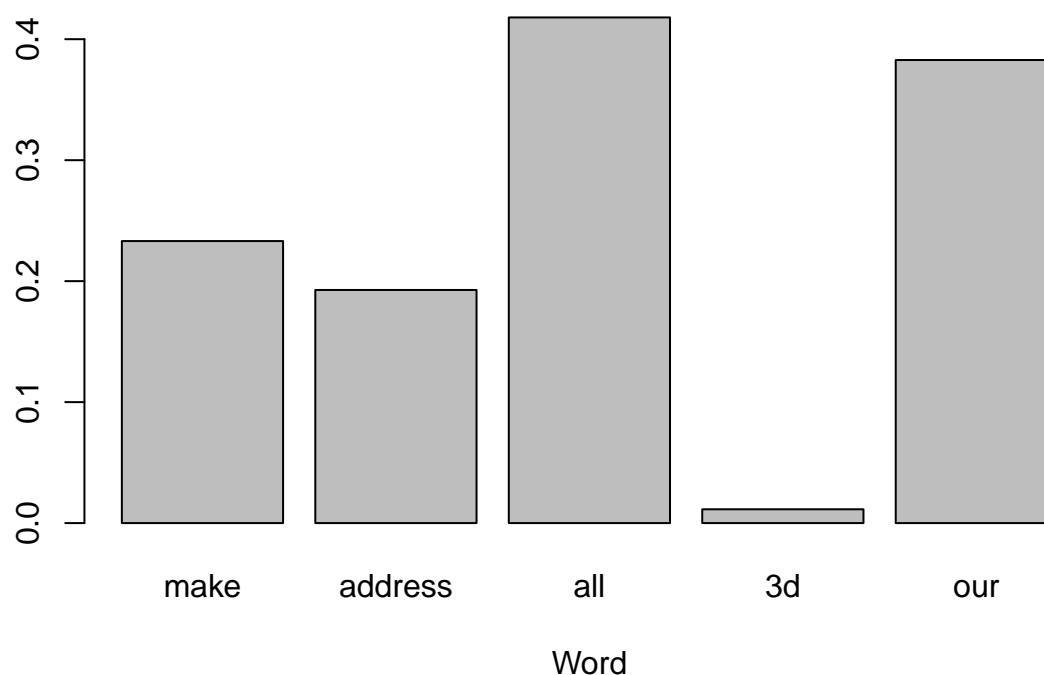
## Visualization of Discretized Transformed Data

First five columns are if the words “make”, “address”, “all”, “3d”, “our” are present in the email.

```
discLabels = c("make", "address", "all", "3d", "our")
means = c(mean(train_Discretize$V1),mean(train_Discretize$V2),mean(train_Discretize$V3),mean(train_Discretize$V4),mean(train_Discretize$V5))

barplot(means, main="Ratio of a word being present in all of the training emails",names.arg = discLabels,
        xlab="Word")
```

**Ratio of a word being present in all of the training emails**



## B) Logistic Regression and Significance of Features

Standardized data

```
stan_lr <- glm(V58~., data=train_Standardized)
lr_testPred <- predict(stan_lr, test_Standardized)
lr_testPred <- ifelse(lr_testPred > 0.5, 1, 0)
lr_trainPred <- predict(stan_lr, train_Standardized)
lr_trainPred <- ifelse(lr_trainPred > 0.5, 1, 0)
lr_testError = mean(lr_testPred!=test_Standardized$V58)
lr_trainError = mean(lr_trainPred!=train_Standardized$V58)
lr_testError
```

```
## [1] 0.1043025
```

```
lr_trainError
```

```
## [1] 0.1020541
```

Log transformed data

```
log_lr <- glm(V58~., data=train_Log)
lr_logTestPred <- predict(log_lr, test_Log)
lr_logTestPred <- ifelse(lr_logTestPred > 0.5, 1, 0)
lr_logTrainPred <- predict(log_lr, train_Log)
lr_logTrainPred <- ifelse(lr_logTrainPred > 0.5, 1, 0)
lr_logTestError = mean(lr_logTestPred!=test_Log$V58)
lr_logTrainError = mean(lr_logTrainPred!=train_Log$V58)
lr_logTestError
```

```
## [1] 0.06584094
```

```
lr_logTrainError
```

```
## [1] 0.06097163
```

Discretized data

```
dis_lr <- glm(V58~., data=train_Discretize)
lr_disTestPred <- predict(dis_lr, test_Discretize)
```

```
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
```

```
lr_disTestPred <- ifelse(lr_disTestPred > 0.5, 1, 0)
lr_disTestError = mean(lr_disTestPred!=test_Discretize$V58)

lr_disTrainPred <- predict(dis_lr, train_Discretize)
```

```
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
```

```
lr_disTrainPred <- ifelse(lr_disTrainPred > 0.5, 1, 0)
lr_disTrainError = mean (lr_disTrainPred!=train_Discretize$V58)

lr_disTestError
```

```
## [1] 0.08409387
```

```
lr_disTrainError
```

```
## [1] 0.07075318
```

Significance of features we can assess the variables' significance by looking at the t-values from the summary like a multiple testing problems with alpha equals 0.1. The variables that allow us to reject the null hypothesis are the significant variables.

```

stan_tval = coef(summary(stan_lr))[, 't value']
log_tval = coef(summary(log_lr))[, 't value']
dis_tval = coef(summary(dis_lr))[, 't value']

c_val = qt(0.95, df=99)
rej_stan = abs(stan_tval) >= c_val
rej_stanIdx = which(rej_stan==1)

rej_log = abs(log_tval) >= c_val
rej_logIdx = which(rej_log==1)

rej_dis = abs(dis_tval) >= c_val
rej_disIdx = which(rej_dis==1)

rej_stanIdx

```

```

## (Intercept)      V1      V2      V3      V4      V5
##           1         2         3         4         5         6
##           V6      V7      V8      V11     V12     V14
##           7         8         9        12        13        15
##          V16     V17     V18     V19     V20     V21
##          17        18        19        20        21        22
##          V22     V23     V24     V25     V26     V27
##          23        24        25        26        27        28
##          V29     V33     V34     V35     V37     V38
##          30        34        35        36        38        39
##          V42     V44     V45     V46     V47     V48
##          43        45        46        47        48        49
##          V49     V52     V53     V54     V57
##          50        53        54        55        58

```

```
rej_logIdx
```

```

## V1 V2 V4 V5 V7 V8 V12 V13 V16 V18 V19 V20 V21 V22 V23 V24 V25 V27 V29 V33
##  2  3  5  6  8  9 13 14 17 19 20 21 22 23 24 25 26 28 30 34
## V35 V37 V38 V42 V44 V45 V46 V47 V48 V49 V52 V53 V56 V57
## 36 38 39 43 45 46 47 48 49 50 53 54 57 58

```

```
rej_disIdx
```

```

## (Intercept)      V1      V4      V5      V7      V8
##           1         2         5         6         8         9
##          V10     V11     V12     V13     V14     V15
##          11        12        13        14        15        16
##          V16     V17     V19     V21     V22     V23
##          17        18        20        22        23        24
##          V24     V25     V27     V28     V31     V33
##          25        26        28        29        32        34
##          V34     V35     V37     V42     V44     V45
##          35        36        38        43        45        46
##          V46     V48     V52     V53     V54
##          47        49        53        54        55

```

These variables listed above are statistically significant from both the logistic regression model on standardized data and log transformed data.

## C) LDA and QDA

LDA on the standardized data

```
stan_model <- lda(V58~., data=train_Standardized)
stan_predictions <- predict(stan_model, test_Standardized)
stan_trainPred <- predict(stan_model, train_Standardized)
stan_class = stan_predictions$class
stan_true_val = test_Standardized$V58
stan_test_error = mean(stan_class!=stan_true_val)
stan_train_error = mean(stan_trainPred$class!=train_Standardized$V58)
stan_test_error
```

```
## [1] 0.1029987
```

```
stan_train_error
```

```
## [1] 0.1017281
```

LDA on the log transformed data

```
log_model <- lda(V58~., data=train_Log)
log_predictions <- predict(log_model, test_Log)
log_trainPred <- predict(log_model, train_Log)
log_class = log_predictions$class
log_true_val = test_Log$V58
log_test_error = mean(log_class!=log_true_val)
log_train_error = mean(log_trainPred$class!=train_Log$V58)
log_test_error
```

```
## [1] 0.06518905
```

```
log_train_error
```

```
## [1] 0.06031953
```

QDA on the standardized data

```
stan_qda <- qda(V58~., data=train_Standardized)
stan_qdaPred <- predict(stan_qda, test_Standardized)
stan_qdaTrainPred <- predict(stan_qda, train_Standardized)
stan_qdaClass = stan_qdaPred$class
stan_qdaTrue = test_Standardized$V58
stan_qdaTest = mean(stan_qdaClass != stan_qdaTrue)
stan_qdaTrainError = mean(stan_qdaTrainPred$class!=train_Standardized$V58)
stan_qdaTest
```

```
## [1] 0.1747066
```

```
stan_qdaTrainError
```

```
## [1] 0.1786762
```

QDA on the transformed data

```
log_qda = qda(V58~., data=train_Log)
log_qdaPred = predict(log_qda, test_Log)
log_qdaTrainPred = predict(log_qda, train_Log)
log_qdaTest = mean(log_qdaPred$class != test_Log$V58)
log_qdaTrainError = mean(log_qdaTrainPred$class!=train_Log$V58)
log_qdaTest
```

```
## [1] 0.1571056
```

```
log_qdaTrainError
```

```
## [1] 0.1587871
```

Comment:

## Part D:

```
library("e1071")
library("ggplot2")
#standard
train_Standardized[,58] <- sapply(train_Standardized[,58], as.factor)
svm_standard_train <- svm(V58 ~., data = train_Standardized, kernel = "linear", cost = .01, scale = FALSE)
p_standard_train <- predict(svm_standard_train, train_Standardized, type="class")
error_rate_stan_train = mean(p_standard_train != train_Standardized$V58)
error_rate_stan_train
```

```
## [1] 0.07857842
```

```
test_Standardized[,58] <- sapply(test_Standardized[,58], as.factor)
svm_standard_test <- svm(V58 ~., data = test_Standardized, kernel = "linear", cost = .01, scale = FALSE)
p_standard_test <- predict(svm_standard_test, test_Standardized, type="class")
error_rate_stan_test = mean(p_standard_test != test_Standardized$V58)
error_rate_stan_test
```

```
## [1] 0.08148631
```

```
#Discretize Transformation
train_Discretize[,58] <- sapply(train_Discretize[,58], as.factor)
svm_dis_train <- svm(V58 ~., data = train_Discretize, kernel = "linear", cost = .01, scale = FALSE)
p_dis_train <- predict(svm_dis_train, train_Discretize, type="class")
error_rate_dis_train = mean(p_dis_train != train_Discretize$V58)
error_rate_dis_train
```

```
## [1] 0.07368764
```

```
test_Discretize[,58] <- sapply(test_Discretize[,58], as.factor)
svm_dis_test <- svm(V58 ~., data = test_Discretize, kernel = "linear", cost = .01, scale = FALSE)
p_dis_test <- predict(svm_dis_test, test_Discretize, type="class")
error_rate_dis_test = mean(p_dis_test != test_Discretize$V58)
error_rate_dis_test
```

```
## [1] 0.08670143
```

```
#log
train_Log[,58] <- sapply(train_Log[,58], as.factor)
svm_log_train <- svm(V58 ~., data = train_Log, kernel = "linear", cost = .01, scale = FALSE)
p_log_train <- predict(svm_log_train, train_Log, type="class")
error_rate_log_train = mean(p_log_train != train_Log$V58)
error_rate_log_train
```

```
## [1] 0.07760026
```

```
test_Log[,58] <- sapply(test_Log[,58], as.factor)
svm_log_test <- svm(V58 ~., data = test_Log, kernel = "linear", cost = .01, scale = FALSE)
p_log_test <- predict(svm_log_test, test_Log, type="class")
error_rate_log_test = mean(p_log_test != test_Log$V58)
error_rate_log_test
```

```
## [1] 0.0821382
```

```
#Radial
#standard
train_Standardized[,58] <- sapply(train_Standardized[,58], as.factor)
svm_standard_train <- svm(V58 ~., data = train_Standardized, kernel = "radial", cost = .001, gamma = 1, scale = 1)
p_standard_train <- predict(svm_standard_train, train_Standardized, type="class")
error_rate_stan_train_r = mean(p_standard_train != train_Standardized$V58)
error_rate_stan_train_r
```

```
## [1] 0.3971307
```

```
test_Standardized[,58] <- sapply(test_Standardized[,58], as.factor)
svm_standard_test <- svm(V58 ~., data = test_Standardized, kernel = "radial", cost = .001, gamma = 1, scale = 1)
p_standard_test <- predict(svm_standard_test, test_Standardized, type="class")
error_rate_stan_test_r = mean(p_standard_test != test_Standardized$V58)
error_rate_stan_test_r
```

```
## [1] 0.4028683
```

```
#Discretize Transformation
train_Discretize[,58] <- sapply(train_Discretize[,58], as.factor)
svm_dis_train <- svm(V58 ~., data = train_Discretize, kernel = "radial", cost = .001, gamma = 1, scale = 1)
p_dis_train <- predict(svm_dis_train, train_Discretize, type="class")
error_rate_dis_train_r = mean(p_dis_train != train_Discretize$V58)
error_rate_dis_train_r
```

```
## [1] 0.3971307
```

```
test_Discretize[,58] <- sapply(test_Discretize[,58], as.factor)
svm_dis_test <- svm(V58 ~., data = test_Discretize, kernel = "radial", cost = .001, gamma = 1, scale = 1)
p_dis_test <- predict(svm_dis_test, test_Discretize, type="class")
error_rate_dis_test_r = mean(p_dis_test != test_Discretize$V58)
error_rate_dis_test_r
```

```
## [1] 0.4028683
```

```
#log
train_Log[,58] <- sapply(train_Log[,58], as.factor)
svm_log_train <- svm(V58 ~., data = train_Log, kernel = "radial", cost = .001, gamma = 1, scale = FALSE)
p_log_train <- predict(svm_log_train, train_Log, type="class")
error_rate_log_train_r = mean(p_log_train != train_Log$V58)
error_rate_log_train_r
```

```
## [1] 0.3971307
```

```
test_Log[,58] <- sapply(test_Log[,58], as.factor)
svm_log_test <- svm(V58 ~., data = test_Log, kernel = "radial", cost = .001, gamma = 1, scale = FALSE)
p_log_test <- predict(svm_log_test, test_Log, type="class")
error_rate_log_test_r = mean(p_log_test != test_Log$V58)
error_rate_log_test_r
```

```
## [1] 0.4028683
```

## Error Rate Table

Error rates in a table

```
tab <- matrix(c(stan_test_error,stan_qdaTest,log_test_error,
               log_qdaTest,lr_testError,lr_logTestError,
               error_rate_stan_test, error_rate_dis_test,
               error_rate_log_test, error_rate_stan_test_r,
               error_rate_dis_test_r, error_rate_log_test_r,
               stan_train_error,stan_qdaTrainError,
               log_train_error,log_qdaTrainError,
               lr_trainError,lr_logTrainError,
               error_rate_stan_train, error_rate_dis_train,
               error_rate_log_train, error_rate_stan_train_r,
               error_rate_dis_train_r, error_rate_log_train_r), nrow=12, ncol=2)
colnames(tab) <- c('Test Error Rate', 'Train Error Rate')
rownames(tab) <- c('LDA on Standardized Data',
                  'QDA on Standardized Data',
                  'LDA on Log Transformed Data',
                  'QDA on Log Transformed Data',
                  'Logistic Regression on Standardized Data',
                  'Logistic Regression on Log Transformed Data',
                  'SVM Linear on Standardized Data',
```



```

'SVM Linear on Discretize Transformed Data',
'SVM Linear on Log Transformed Data',
'SVM Radial on Standardized Data',
'SVM Radial on Discretize Transformed Data',
'SVM Radial on Log Transformed Data')
tab <- as.table(tab)
tab

```

| ##   | Test Error Rate | Train Error Rate |
|--|-----------------|------------------|
| ## LDA on Standardized Data                    | 0.10299870      | 0.10172807       |
| ## QDA on Standardized Data                    | 0.17470665      | 0.17867623       |
| ## LDA on Log Transformed Data                 | 0.06518905      | 0.06031953       |
| ## QDA on Log Transformed Data                 | 0.15710561      | 0.15878709       |
| ## Logistic Regression on Standardized Data    | 0.10430248      | 0.10205412       |
| ## Logistic Regression on Log Transformed Data | 0.06584094      | 0.06097163       |
| ## SVM Linear on Standardized Data             | 0.08148631      | 0.07857842       |
| ## SVM Linear on Discretize Transformed Data   | 0.08670143      | 0.07368764       |
| ## SVM Linear on Log Transformed Data          | 0.08213820      | 0.07760026       |
| ## SVM Radial on Standardized Data             | 0.40286832      | 0.39713075       |
| ## SVM Radial on Discretize Transformed Data   | 0.40286832      | 0.39713075       |
| ## SVM Radial on Log Transformed Data          | 0.40286832      | 0.39713075       |

## Classifier Design