Ex1. Bayesian linear regression

$p(w) = \mathcal{N}(w \mid w_0, V_0)$

$p(y \mid X, w) = \mathcal{N}(y \mid Xw, \Sigma)$ $\quad V_n = (X^T\Sigma^{-1}X + V_0^{-1})^{-1}$

$\rightarrow p(w \mid X, y) = \mathcal{N}(w \mid w_n, V_n)$ mit $w_n = V_n(V_0^{-1}w_0 + X^T\Sigma^{-1}y)$

① $p(w \mid y, x) = \dfrac{p(y \mid X, w) \cdot p(w)}{p(y \mid x)}$ weil $p(y \mid x)$ unabhängig mit $w \Rightarrow$ sei $p(y \mid x) = \frac{1}{a}$

Dann:

② $p(w \mid y, x) = a \cdot \exp\left(-\frac{1}{2}(y - Xw)^T\Sigma^{-1}(y - Xw)\right) \cdot \exp\left(-\frac{1}{2}(y - w_0)^T V_0^{-1}(y - w_0)\right)$

$= a \cdot \exp\left(-\frac{1}{2}\left((y - Xw)^T\Sigma^{-1}(y - Xw) + (y - w_0)^T V_0^{-1}(y - w_0)\right)\right)$

$= a \cdot \exp\left(-\frac{1}{2}\left(y\Sigma^{-1}y - y^T\Sigma^{-1}Xw - (Xw)^T\Sigma^{-1}y + (Xw)^T\Sigma^{-1}Xw + y^T V_0^{-1}y - y^T V_0^{-1}w_0 - w_0^T V_0^{-1}y + w_0^T V_0^{-1}w_0\right)\right)$

$= a \cdot \exp\left(-\frac{1}{2}w^T(V_0^{-1} + X^T\Sigma^{-1}X)w - w^T \cdot V_n(V_0^{-1}w_0 + X^T\Sigma^{-1}y) \cdot x + c\right)$

Dann: $V_n^{-1} = (X^T\Sigma^{-1}X + V_0^{-1})$

$V_n^{-1} \cdot w_n = V_n(V_0^{-1}w_0 + X^T\Sigma^{-1}y)$

$\Leftrightarrow p(w \mid y, x) = \mathcal{N}(w \mid w_n, V_n)$ mit $V_n = (X^T\Sigma^{-1}X + V_0^{-1})^{-1} = \Lambda^{-1}$

$w_n = V_n(V_0^{-1}w_0 + X^T\Sigma^{-1}y) = V_n g$ $\quad \Omega$

In [ ]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import math
import seaborn as sns
```

In [ ]:
```
# Set the header

row = ['CRIM', 'ZN', 'INDUS', 'CHAS', 'NOX', 'RM', 'AGE', 'DIS', 'RAD', 'TAX', 'PTRA

# Load table
analysis = pd.read_table('boston.txt', names=row, delimiter=r'\s+', header=None, sk
verifier = pd.read_table('boston.txt', names=row, delimiter=r'\s+', header=None, sk
test = pd.read_table('boston.txt', names=row, delimiter=r'\s+', header=None, skipro

# Check the table size
print(analysis.shape,verifier.shape,test.shape)
```

```
(356, 14) (50, 14) (100, 14)
```

```
C:\Users\Sherry\AppData\Local\Programs\Python\Python39\lib\site-packages\pandas\util
\_decorators.py:311: ParserWarning: Falling back to the 'python' engine because the
'c' engine does not support skipfooter; you can avoid this warning by specifying eng
ine='python'.
  return func(*args, **kwargs)
```

In [ ]:
```
# Observe the data distribution
analysis.describe()
```

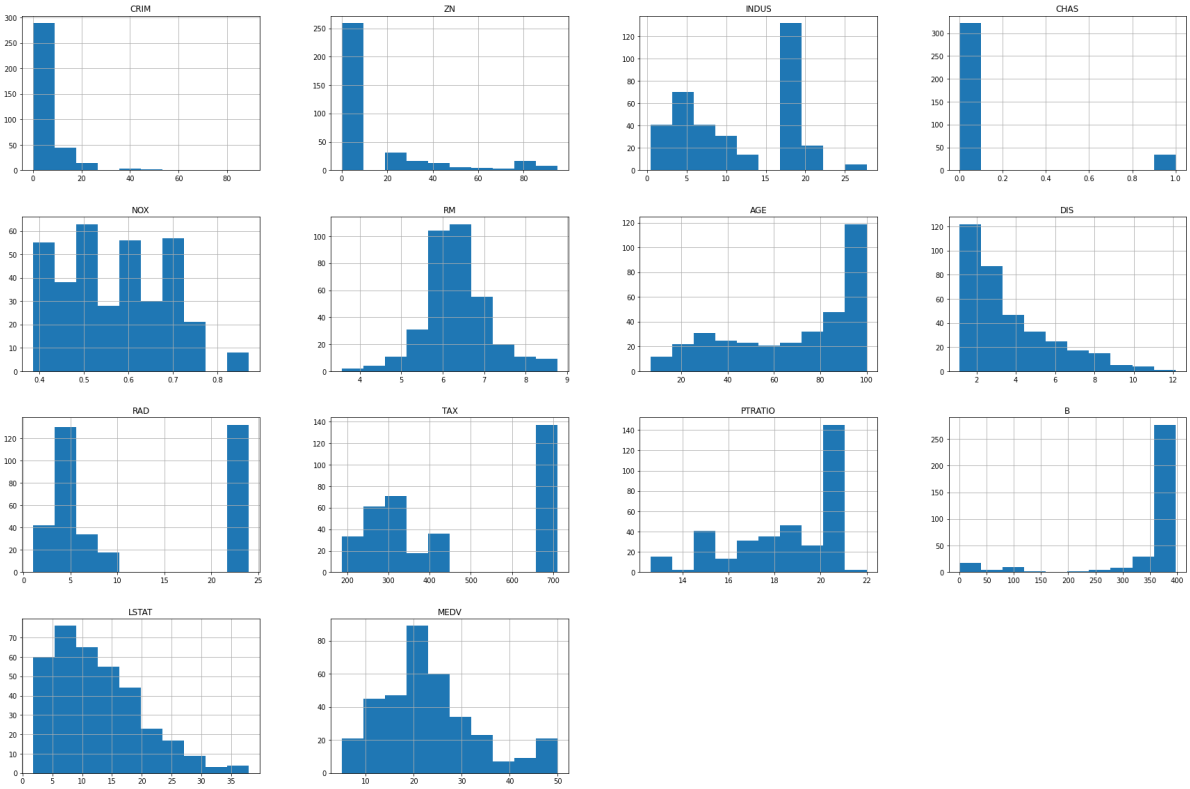
Out[ ]:

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	
count	356.000000	356.000000	356.000000	356.000000	356.000000	356.000000	356.000000	356.00
mean	4.957784	12.672753	11.571770	0.095506	0.568836	6.343020	68.944382	3.64
std	9.946949	24.626627	6.889486	0.294326	0.117562	0.769347	28.121430	2.18
min	0.009060	0.000000	0.460000	0.000000	0.385000	3.561000	6.800000	1.12
25%	0.083545	0.000000	4.950000	0.000000	0.470000	5.897500	43.475000	1.98
50%	0.455435	0.000000	10.590000	0.000000	0.573000	6.311000	78.200000	2.85
75%	6.567800	20.000000	18.100000	0.000000	0.671000	6.730750	94.025000	4.79
max	88.976200	95.000000	27.740000	1.000000	0.871000	8.780000	100.000000	12.12

In [ ]:
```
# Histogram of each feature
analysis.hist( figsize = (30,20))
```

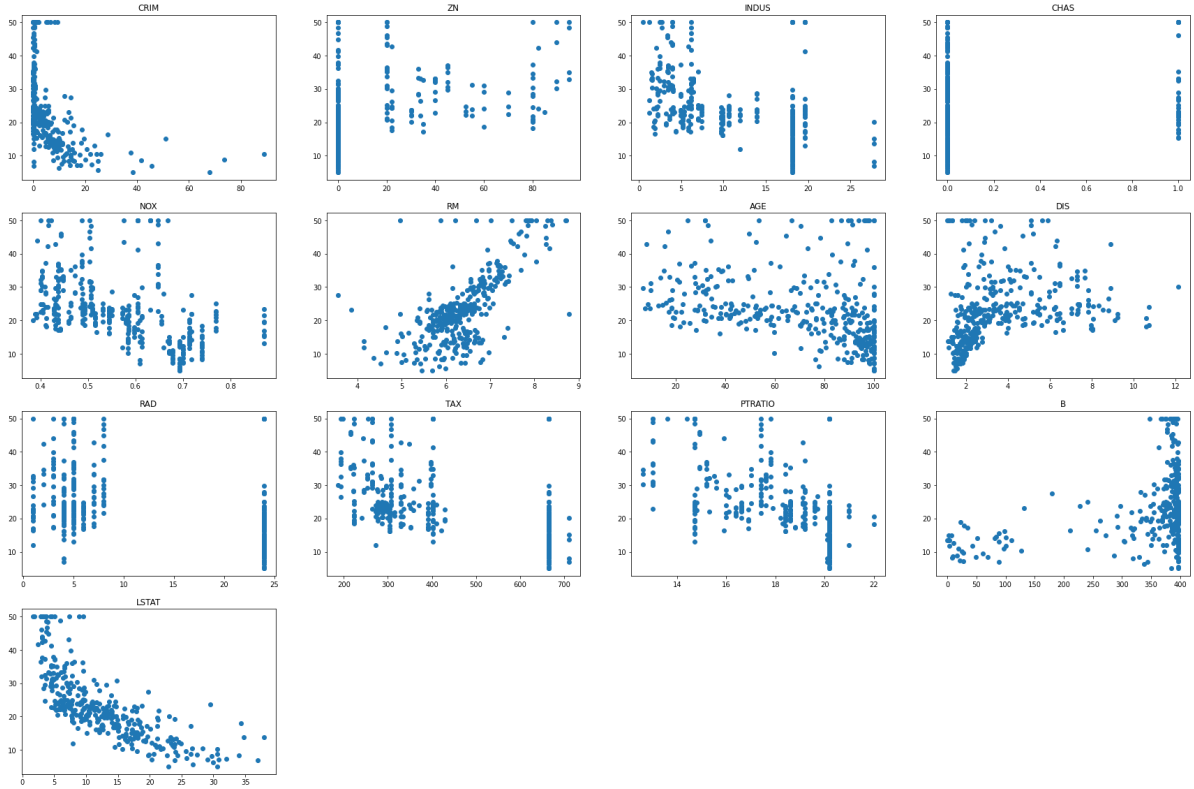
Out[ ]:

```
array([[<AxesSubplot:title={'center':'CRIM'}>,
        <AxesSubplot:title={'center':'ZN'}>,
        <AxesSubplot:title={'center':'INDUS'}>,
        <AxesSubplot:title={'center':'CHAS'}>],
       [<AxesSubplot:title={'center':'NOX'}>,
        <AxesSubplot:title={'center':'RM'}>,
        <AxesSubplot:title={'center':'AGE'}>,
        <AxesSubplot:title={'center':'DIS'}>],
       [<AxesSubplot:title={'center':'RAD'}>,
        <AxesSubplot:title={'center':'TAX'}>,
        <AxesSubplot:title={'center':'PTRATIO'}>,
        <AxesSubplot:title={'center':'B'}>],
       [<AxesSubplot:title={'center':'LSTAT'}>,
        <AxesSubplot:title={'center':'MEDV'}>, <AxesSubplot:>,
        <AxesSubplot:>]], dtype=object)
```



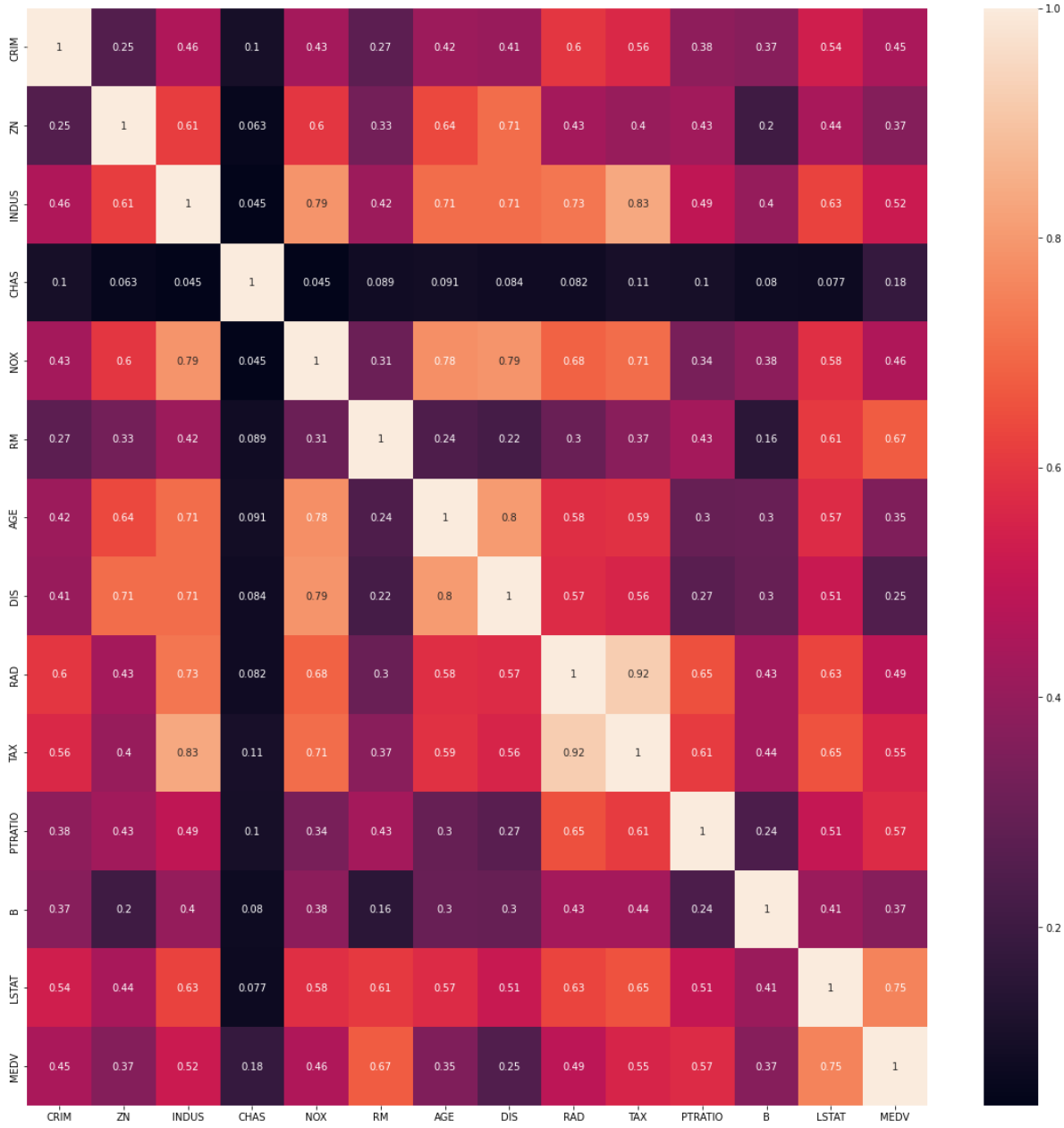
In [ ]:

```
# Further analyze the correlation between characteristics and housing prices

plt.figure(figsize=(30,20),)
for idx in range(13):
    plt.subplot(4,4,idx+1)
    plt.scatter(analysis[row[idx]], analysis['MEDV'])
    plt.title(row[idx])
```



In [ ]:
```
# Quantify the correlation coefficient between features (between -1 and 1, 1 is a st
# The characteristics of RM, LSTAT, PTRATIO and MEDV are highly correlated

plt.figure(figsize=(20,20))
sns.heatmap(analysis.corr().abs(),annot=True)
```

Out[ ]:
```
<AxesSubplot:>
```



In [ ]:

```
# Train a linear regression model and use features with high correlation between RM,
parameter = np.random.rand(4,)

# y = parameter_0 + parameter_1*RM + parameter_1*LSTAT + parameter_2*PTRATIO
def function(x):
    return np.dot(parameter,x.T)

# Evaluation function
def mse(x,y):
    return np.sum ((function(x)-y)**2) / len(y)
```

In [ ]:

```
# validation

train_x = verifier[['RM','LSTAT','PTRATIO']]

# standardization
train_x = (train_x-train_x.mean()) / train_x.std()

# For the constant item parameter 0 corresponds to input 1
train_x = np.insert(train_x.to_numpy(), 0, 1, axis=1)

# Set y
train_y = verifier['MEDV']
```

```
# Tested to be 0.0001 more appropriate
learning_rate = 0.0001

# Try to learn 10,000 times in a loop
for i in range(10000):
    parameter = parameter - learning_rate * np.dot(function(train_x)-train_y,train_x
    metrics = mse(train_x, train_y)
    print('Round%d-------squared error: %.04f parameter: %s' % (i+1, metrics, str(pa

print('\n\nFinal result')
parameter
```

```
Round1-------squared error: 322.4413 parameter: [0.75179088 0.27118425 0.62963231 0.
39340306]
Round2-------squared error: 319.2160 parameter: [0.84002193 0.28181271 0.61661415 0.
39752705]
Round3-------squared error: 316.0241 parameter: [0.92781182 0.29232743 0.60371051 0.
40157382]
Round4-------squared error: 312.8652 parameter: [1.01516276 0.30272959 0.59092021 0.
40554429]
Round5-------squared error: 309.7390 parameter: [1.10207695 0.31302041 0.5782421  0.
4094394 ]
Round6-------squared error: 306.6451 parameter: [1.18855656 0.32320105 0.56567501 0.
41326005]
Round7-------squared error: 303.5831 parameter: [1.27460378 0.33327269 0.5532178  0.
41700714]
Round8-------squared error: 300.5528 parameter: [1.36022076 0.34323649 0.54086935 0.
42068158]
Round9-------squared error: 297.5537 parameter: [1.44540966 0.35309359 0.52862855 0.
42428424]
Round10-------squared error: 294.5855 parameter: [1.53017261 0.36284511 0.51649428
0.42781599]
Round11-------squared error: 291.6480 parameter: [1.61451174 0.37249219 0.50446545
0.4312777 ]
Round12-------squared error: 288.7408 parameter: [1.69842919 0.38203593 0.49254098
0.43467022]
Round13-------squared error: 285.8635 parameter: [1.78192704 0.39147742 0.4807198
0.43799439]
Round14-------squared error: 283.0159 parameter: [1.8650074  0.40081774 0.46900086
0.44125105]
Round15-------squared error: 280.1975 parameter: [1.94767237 0.41005798 0.4573831
0.44444102]
Round16-------squared error: 277.4082 parameter: [2.02992401 0.41919918 0.44586549
0.44756512]
Round17-------squared error: 274.6476 parameter: [2.11176439 0.42824241 0.43444701
0.45062416]
Round18-------squared error: 271.9154 parameter: [2.19319556 0.43718869 0.42312664
0.45361893]
Round19-------squared error: 269.2113 parameter: [2.27421959 0.44603906 0.41190338
0.45655023]
Round20-------squared error: 266.5350 parameter: [2.35483849 0.45479453 0.40077624
0.45941882]
Round21-------squared error: 263.8861 parameter: [2.4350543  0.4634561  0.38974423
0.46222549]
Round22-------squared error: 261.2645 parameter: [2.51486902 0.47202478 0.37880638
0.464971  ]
Round23-------squared error: 258.6698 parameter: [2.59428468 0.48050154 0.36796173
0.4676561 ]
Round24-------squared error: 256.1017 parameter: [2.67330326 0.48888735 0.35720934
0.47028153]
Round25-------squared error: 253.5600 parameter: [2.75192674 0.49718319 0.34654826
0.47284804]
Round26-------squared error: 251.0443 parameter: [2.83015711 0.50538999 0.33597755
0.47535635]
Round27-------squared error: 248.5544 parameter: [2.90799632 0.51350871 0.32549631
0.47780718]
Round28-------squared error: 246.0901 parameter: [2.98544634 0.52154028 0.31510361
0.48020125]
Round29-------squared error: 243.6510 parameter: [3.06250911 0.52948561 0.30479856
0.48253927]
Round30-------squared error: 241.2368 parameter: [3.13918656 0.53734562 0.29458027
0.48482192]
Round31-------squared error: 238.8474 parameter: [3.21548063 0.54512122 0.28444785
0.4870499 ]
Round32-------squared error: 236.4825 parameter: [3.29139323 0.55281329 0.27440043
0.48922389]
```

```
Round33-------squared error: 234.1417 parameter: [3.36692626 0.56042271 0.26443715
0.49134456]
Round34-------squared error: 231.8249 parameter: [3.44208163 0.56795037 0.25455715
0.49341259]
Round35-------squared error: 229.5318 parameter: [3.51686122 0.57539712 0.24475958
0.49542862]
Round36-------squared error: 227.2622 parameter: [3.59126691 0.58276383 0.23504362
0.49739331]
Round37-------squared error: 225.0157 parameter: [3.66530058 0.59005132 0.22540844
0.49930731]
Round38-------squared error: 222.7922 parameter: [3.73896408 0.59726046 0.2158532
0.50117125]
Round39-------squared error: 220.5914 parameter: [3.81225926 0.60439205 0.20637712
0.50298576]
Round40-------squared error: 218.4130 parameter: [3.88518796 0.61144692 0.19697938
0.50475147]
Round41-------squared error: 216.2570 parameter: [3.95775202 0.61842588 0.18765919
0.50646898]
Round42-------squared error: 214.1229 parameter: [4.02995326 0.62532973 0.17841577
0.50813892]
Round43-------squared error: 212.0105 parameter: [4.10179349 0.63215926 0.16924834
0.50976187]
Round44-------squared error: 209.9198 parameter: [4.17327453 0.63891527 0.16015614
0.51133845]
Round45-------squared error: 207.8503 parameter: [4.24439815 0.64559851 0.1511384
0.51286922]
Round46-------squared error: 205.8019 parameter: [4.31516616 0.65220977 0.14219437
0.51435479]
Round47-------squared error: 203.7745 parameter: [4.38558033 0.6587498  0.13332331
0.51579571]
Round48-------squared error: 201.7676 parameter: [4.45564243 0.66521935 0.12452449
0.51719257]
Round49-------squared error: 199.7812 parameter: [4.52535422 0.67161916 0.11579717
0.51854592]
Round50-------squared error: 197.8151 parameter: [4.59471745 0.67794998 0.10714064
0.51985632]
Round51-------squared error: 195.8689 parameter: [4.66373386 0.68421252 0.09855418
0.52112432]
Round52-------squared error: 193.9426 parameter: [4.73240519 0.69040751 0.0900371
0.52235047]
Round53-------squared error: 192.0358 parameter: [4.80073316 0.69653566 0.08158868
0.52353529]
Round54-------squared error: 190.1485 parameter: [4.8687195  0.70259767 0.07320825
0.52467933]
Round55-------squared error: 188.2803 parameter: [4.9363659  0.70859424 0.06489511
0.52578311]
Round56-------squared error: 186.4312 parameter: [5.00367407 0.71452607 0.0566486
0.52684714]
Round57-------squared error: 184.6008 parameter: [5.0706457  0.72039382 0.04846805
0.52787194]
Round58-------squared error: 182.7890 parameter: [5.13728247 0.72619818 0.04035278
0.52885803]
Round59-------squared error: 180.9957 parameter: [5.20358606 0.73193981 0.03230216
0.52980589]
Round60-------squared error: 179.2205 parameter: [5.26955813 0.73761937 0.02431554
0.53071603]
Round61-------squared error: 177.4634 parameter: [5.33520034 0.74323752 0.01639226
0.53158895]
Round62-------squared error: 175.7241 parameter: [5.40051434 0.74879491 0.00853171
0.53242511]
Round63-------squared error: 174.0025 parameter: [5.46550177e+00 7.54292162e-01 7.33
243602e-04 5.33225013e-01]
Round64-------squared error: 172.2983 parameter: [ 5.53016426  0.75972992 -0.0070037
5  0.53398912]
```

```
Round65-------squared error: 170.6115 parameter: [ 5.59450344  0.76510881 -0.0146798
8  0.53471791]
Round66-------squared error: 168.9417 parameter: [ 5.65852092  0.77042945 -0.0222957
6  0.53541184]
Round67-------squared error: 167.2889 parameter: [ 5.72221831  0.77569244 -0.0298519
9  0.53607136]
Round68-------squared error: 165.6528 parameter: [ 5.78559722  0.78089841 -0.0373491
6  0.53669694]
Round69-------squared error: 164.0333 parameter: [ 5.84865924  0.78604794 -0.0447878
7  0.53728903]
Round70-------squared error: 162.4303 parameter: [ 5.91140594  0.79114163 -0.0521686
9  0.53784805]
Round71-------squared error: 160.8434 parameter: [ 5.97383891  0.79618006 -0.0594922
0.53837446]
Round72-------squared error: 159.2727 parameter: [ 6.03595972  0.80116382 -0.0667589
6  0.53886869]
Round73-------squared error: 157.7178 parameter: [ 6.09776992  0.80609348 -0.0739695
5  0.53933115]
Round74-------squared error: 156.1787 parameter: [ 6.15927107  0.81096961 -0.0811245
2  0.53976229]
Round75-------squared error: 154.6552 parameter: [ 6.22046471  0.81579276 -0.0882244
2  0.54016251]
Round76-------squared error: 153.1471 parameter: [ 6.28135239  0.8205635  -0.0952698
0.54053223]
Round77-------squared error: 151.6543 parameter: [ 6.34193563  0.82528238 -0.1022611
9  0.54087185]
Round78-------squared error: 150.1765 parameter: [ 6.40221595  0.82994993 -0.1091991
4  0.54118179]
Round79-------squared error: 148.7137 parameter: [ 6.46219487  0.8345667  -0.1160841
6  0.54146244]
Round80-------squared error: 147.2657 parameter: [ 6.52187389  0.83913322 -0.1229167
9  0.5417142 ]
Round81-------squared error: 145.8324 parameter: [ 6.58125453  0.84365002 -0.1296975
5  0.54193746]
Round82-------squared error: 144.4135 parameter: [ 6.64033825  0.84811761 -0.1364269
3  0.5421326 ]
Round83-------squared error: 143.0090 parameter: [ 6.69912656  0.85253652 -0.1431054
6  0.5423    ]
Round84-------squared error: 141.6187 parameter: [ 6.75762093  0.85690725 -0.1497336
3  0.54244005]
Round85-------squared error: 140.2424 parameter: [ 6.81582282  0.86123031 -0.1563119
3  0.54255312]
Round86-------squared error: 138.8800 parameter: [ 6.87373371  0.86550619 -0.1628408
6  0.54263957]
Round87-------squared error: 137.5314 parameter: [ 6.93135504  0.86973539 -0.1693209
1  0.54269977]
Round88-------squared error: 136.1964 parameter: [ 6.98868827  0.87391841 -0.1757525
5  0.54273408]
Round89-------squared error: 134.8749 parameter: [ 7.04573482  0.87805571 -0.1821362
7  0.54274286]
Round90-------squared error: 133.5667 parameter: [ 7.10249615  0.88214779 -0.1884725
2  0.54272646]
Round91-------squared error: 132.2717 parameter: [ 7.15897367  0.88619511 -0.1947617
8  0.54268523]
Round92-------squared error: 130.9898 parameter: [ 7.2151688   0.89019814 -0.2010045
1  0.5426195 ]
Round93-------squared error: 129.7209 parameter: [ 7.27108296  0.89415735 -0.2072011
6  0.54252963]
Round94-------squared error: 128.4647 parameter: [ 7.32671754  0.89807319 -0.2133521
8  0.54241595]
Round95-------squared error: 127.2212 parameter: [ 7.38207395  0.90194612 -0.2194580
2  0.54227879]
Round96-------squared error: 125.9902 parameter: [ 7.43715359  0.90577658 -0.2255191
2  0.54211848]
```

```
Round97-------squared error: 124.7717 parameter: [ 7.49195782  0.90956502 -0.2315359
3  0.54193535]
Round98-------squared error: 123.5654 parameter: [ 7.54648803  0.91331187 -0.2375088
6  0.54172971]
Round99-------squared error: 122.3713 parameter: [ 7.60074559  0.91701758 -0.2434383
5  0.54150188]
Round100-------squared error: 121.1892 parameter: [ 7.65473186  0.92068257 -0.249324
82  0.54125218]
Round101-------squared error: 120.0191 parameter: [ 7.7084482   0.92430727 -0.255168
69  0.54098092]
Round102-------squared error: 118.8607 parameter: [ 7.76189596  0.92789209 -0.260970
38  0.54068841]
Round103-------squared error: 117.7140 parameter: [ 7.81507648  0.93143745 -0.266730
29  0.54037494]
Round104-------squared error: 116.5788 parameter: [ 7.8679911   0.93494377 -0.272448
83  0.54004082]
Round105-------squared error: 115.4551 parameter: [ 7.92064114  0.93841145 -0.278126
4   0.53968634]
Round106-------squared error: 114.3427 parameter: [ 7.97302794  0.94184089 -0.283763
4   0.5393118 ]
Round107-------squared error: 113.2415 parameter: [ 8.0251528   0.94523249 -0.289360
22  0.53891749]
Round108-------squared error: 112.1514 parameter: [ 8.07701703  0.94858665 -0.294917
25  0.53850369]
Round109-------squared error: 111.0722 parameter: [ 8.12862195  0.95190376 -0.300434
88  0.53807068]
Round110-------squared error: 110.0039 parameter: [ 8.17996884  0.9551842  -0.305913
48  0.53761875]
Round111-------squared error: 108.9464 parameter: [ 8.23105899  0.95842835 -0.311353
43  0.53714817]
Round112-------squared error: 107.8995 parameter: [ 8.2818937   0.9616366  -0.316755
11  0.53665921]
Round113-------squared error: 106.8631 parameter: [ 8.33247423  0.96480931 -0.322118
89  0.53615214]
Round114-------squared error: 105.8372 parameter: [ 8.38280186  0.96794686 -0.327445
12  0.53562724]
Round115-------squared error: 104.8215 parameter: [ 8.43287785  0.9710496  -0.332734
18  0.53508475]
Round116-------squared error: 103.8161 parameter: [ 8.48270346  0.97411792 -0.337986
41  0.53452496]
Round117-------squared error: 102.8208 parameter: [ 8.53227994  0.97715215 -0.343202
18  0.5339481 ]
Round118-------squared error: 101.8355 parameter: [ 8.58160854  0.98015265 -0.348381
82  0.53335445]
Round119-------squared error: 100.8601 parameter: [ 8.6306905   0.98311979 -0.353525
7   0.53274424]
Round120-------squared error: 99.8945 parameter: [ 8.67952705  0.98605389 -0.3586341
4  0.53211773]
Round121-------squared error: 98.9386 parameter: [ 8.72811941  0.98895531 -0.3637074
9  0.53147516]
Round122-------squared error: 97.9923 parameter: [ 8.77646882  0.99182439 -0.3687460
9  0.53081678]
Round123-------squared error: 97.0555 parameter: [ 8.82457647  0.99466145 -0.3737502
7  0.53014282]
Round124-------squared error: 96.1281 parameter: [ 8.87244359  0.99746684 -0.3787203
5  0.52945353]
Round125-------squared error: 95.2100 parameter: [ 8.92007137  1.00024088 -0.3836566
6  0.52874913]
Round126-------squared error: 94.3012 parameter: [ 8.96746101  1.0029839  -0.3885595
3  0.52802987]
Round127-------squared error: 93.4014 parameter: [ 9.01461371  1.00569621 -0.3934292
6  0.52729596]
Round128-------squared error: 92.5108 parameter: [ 9.06153064  1.00837815 -0.3982661
8  0.52654764]
```

```
Round129-------squared error: 91.6290 parameter: [ 9.10821299  1.01103001 -0.4030706
0.52578513]
Round130-------squared error: 90.7561 parameter: [ 9.15466192  1.01365211 -0.4078428
3  0.52500865]
Round131-------squared error: 89.8920 parameter: [ 9.20087861  1.01624477 -0.4125831
6  0.52421841]
Round132-------squared error: 89.0365 parameter: [ 9.24686422  1.01880828 -0.4172919
1  0.52341465]
Round133-------squared error: 88.1896 parameter: [ 9.2926199   1.02134296 -0.4219693
7  0.52259756]
Round134-------squared error: 87.3512 parameter: [ 9.3381468   1.02384908 -0.4266158
4  0.52176736]
Round135-------squared error: 86.5212 parameter: [ 9.38344607  1.02632696 -0.4312316
0.52092426]
Round136-------squared error: 85.6996 parameter: [ 9.42851884  1.02877688 -0.4358169
6  0.52006846]
Round137-------squared error: 84.8862 parameter: [ 9.47336624  1.03119914 -0.4403722
0.51920017]
Round138-------squared error: 84.0809 parameter: [ 9.51798941  1.03359402 -0.4448975
9  0.51831959]
Round139-------squared error: 83.2837 parameter: [ 9.56238946  1.03596179 -0.4493934
2  0.51742691]
Round140-------squared error: 82.4945 parameter: [ 9.60656752  1.03830275 -0.4538599
8  0.51652234]
Round141-------squared error: 81.7132 parameter: [ 9.65052468  1.04061717 -0.4582975
2  0.51560607]
Round142-------squared error: 80.9398 parameter: [ 9.69426205  1.04290532 -0.4627063
4  0.51467829]
Round143-------squared error: 80.1741 parameter: [ 9.73778074  1.04516748 -0.4670866
8  0.51373919]
Round144-------squared error: 79.4161 parameter: [ 9.78108184  1.0474039  -0.4714388
3  0.51278896]
Round145-------squared error: 78.6657 parameter: [ 9.82416643  1.04961487 -0.4757630
4  0.51182777]
Round146-------squared error: 77.9227 parameter: [ 9.8670356   1.05180064 -0.4800595
8  0.51085583]
Round147-------squared error: 77.1873 parameter: [ 9.90969042  1.05396146 -0.4843286
9  0.5098733 ]
Round148-------squared error: 76.4592 parameter: [ 9.95213197  1.05609761 -0.4885706
5  0.50888036]
Round149-------squared error: 75.7384 parameter: [ 9.99436131  1.05820933 -0.4927857
0.5078772 ]
Round150-------squared error: 75.0248 parameter: [10.0363795   1.06029687 -0.4969740
9  0.50686398]
Round151-------squared error: 74.3183 parameter: [10.07818761  1.06236048 -0.5011360
7  0.50584088]
Round152-------squared error: 73.6190 parameter: [10.11978667  1.06440041 -0.5052718
9  0.50480806]
Round153-------squared error: 72.9266 parameter: [10.16117773  1.0664169  -0.5093817
8  0.50376571]
Round154-------squared error: 72.2412 parameter: [10.20236185  1.0684102  -0.5134659
8  0.50271397]
Round155-------squared error: 71.5626 parameter: [10.24334004  1.07038054 -0.5175247
4  0.50165303]
Round156-------squared error: 70.8908 parameter: [10.28411334  1.07232816 -0.5215582
9  0.50058303]
Round157-------squared error: 70.2258 parameter: [10.32468277  1.07425329 -0.5255668
6  0.49950415]
Round158-------squared error: 69.5674 parameter: [10.36504936  1.07615616 -0.5295506
8  0.49841653]
Round159-------squared error: 68.9156 parameter: [10.40521411  1.07803701 -0.5335099
8  0.49732033]
Round160-------squared error: 68.2703 parameter: [10.44517804  1.07989605 -0.5374449
9  0.49621572]
```

```
Round161-------squared error: 67.6314 parameter: [10.48494215  1.08173352 -0.5413559
2  0.49510284]
Round162-------squared error: 66.9990 parameter: [10.52450744  1.08354962 -0.545243
0.49398184]
Round163-------squared error: 66.3729 parameter: [10.5638749   1.08534459 -0.5491064
4  0.49285288]
Round164-------squared error: 65.7530 parameter: [10.60304553  1.08711864 -0.5529464
7  0.49171609]
Round165-------squared error: 65.1394 parameter: [10.6420203   1.08887199 -0.5567633
0.49057163]
Round166-------squared error: 64.5319 parameter: [10.6808002   1.09060484 -0.5605571
3  0.48941964]
Round167-------squared error: 63.9304 parameter: [10.7193862   1.0923174  -0.5643281
9  0.48826026]
Round168-------squared error: 63.3350 parameter: [10.75777926  1.09400989 -0.5680766
6  0.48709363]
Round169-------squared error: 62.7455 parameter: [10.79598037  1.09568251 -0.5718027
7  0.4859199 ]
Round170-------squared error: 62.1620 parameter: [10.83399047  1.09733546 -0.5755067
1  0.48473919]
Round171-------squared error: 61.5842 parameter: [10.87181051  1.09896894 -0.5791886
9  0.48355165]
Round172-------squared error: 61.0122 parameter: [10.90944146  1.10058316 -0.5828489
0.4823574 ]
Round173-------squared error: 60.4460 parameter: [10.94688425  1.10217831 -0.5864875
4  0.48115658]
Round174-------squared error: 59.8854 parameter: [10.98413983  1.10375458 -0.5901048
1  0.47994932]
Round175-------squared error: 59.3304 parameter: [11.02120913  1.10531217 -0.5937008
9  0.47873575]
Round176-------squared error: 58.7810 parameter: [11.05809309  1.10685127 -0.5972759
9  0.47751599]
Round177-------squared error: 58.2370 parameter: [11.09479262  1.10837207 -0.6008302
8  0.47629018]
Round178-------squared error: 57.6985 parameter: [11.13130866  1.10987475 -0.6043639
6  0.47505843]
Round179-------squared error: 57.1653 parameter: [11.16764212  1.1113595  -0.6078772
0.47382087]
Round180-------squared error: 56.6375 parameter: [11.20379391  1.11282651 -0.6113702
1  0.47257762]
Round181-------squared error: 56.1150 parameter: [11.23976494  1.11427594 -0.6148431
4  0.4713288 ]
Round182-------squared error: 55.5977 parameter: [11.27555611  1.11570799 -0.6182961
9  0.47007452]
Round183-------squared error: 55.0855 parameter: [11.31116833  1.11712283 -0.6217295
3  0.46881491]
Round184-------squared error: 54.5785 parameter: [11.34660249  1.11852063 -0.6251433
4  0.46755009]
Round185-------squared error: 54.0765 parameter: [11.38185948  1.11990157 -0.6285377
8  0.46628015]
Round186-------squared error: 53.5795 parameter: [11.41694018  1.12126582 -0.6319130
5  0.46500522]
Round187-------squared error: 53.0875 parameter: [11.45184548  1.12261355 -0.6352692
9  0.46372541]
Round188-------squared error: 52.6004 parameter: [11.48657625  1.12394493 -0.6386066
9  0.46244083]
Round189-------squared error: 52.1182 parameter: [11.52113337  1.12526012 -0.6419254
0.46115158]
Round190-------squared error: 51.6408 parameter: [11.5555177   1.12655929 -0.6452256
0.45985778]
Round191-------squared error: 51.1681 parameter: [11.58973011  1.12784261 -0.6485074
5  0.45855952]
Round192-------squared error: 50.7002 parameter: [11.62377146  1.12911022 -0.6517711
1  0.45725692]
```

```
Round193-------squared error: 50.2369 parameter: [11.65764261  1.1303623  -0.6550167
4  0.45595008]
Round194-------squared error: 49.7783 parameter: [11.69134439  1.13159899 -0.6582444
9  0.45463909]
Round195-------squared error: 49.3242 parameter: [11.72487767  1.13282046 -0.6614545
3  0.45332407]
Round196-------squared error: 48.8747 parameter: [11.75824328  1.13402686 -0.6646470
2  0.4520051 ]
Round197-------squared error: 48.4296 parameter: [11.79144207  1.13521835 -0.6678220
9  0.45068229]
Round198-------squared error: 47.9890 parameter: [11.82447486  1.13639507 -0.6709799
1  0.44935573]
Round199-------squared error: 47.5528 parameter: [11.85734248  1.13755717 -0.6741206
3  0.44802552]
Round200-------squared error: 47.1209 parameter: [11.89004577  1.1387048  -0.6772444
0.44669176]
Round201-------squared error: 46.6934 parameter: [11.92258554  1.13983811 -0.6803513
6  0.44535453]
Round202-------squared error: 46.2701 parameter: [11.95496261  1.14095724 -0.6834416
5  0.44401393]
Round203-------squared error: 45.8510 parameter: [11.9871778   1.14206234 -0.6865154
3  0.44267005]
Round204-------squared error: 45.4361 parameter: [12.01923191  1.14315355 -0.6895728
4  0.44132299]
Round205-------squared error: 45.0254 parameter: [12.05112575  1.14423101 -0.6926140
2  0.43997282]
Round206-------squared error: 44.6187 parameter: [12.08286012  1.14529485 -0.6956391
1  0.43861964]
Round207-------squared error: 44.2161 parameter: [12.11443582  1.14634522 -0.6986482
4  0.43726353]
Round208-------squared error: 43.8176 parameter: [12.14585364  1.14738225 -0.7016415
6  0.43590458]
Round209-------squared error: 43.4229 parameter: [12.17711437  1.14840607 -0.7046192
0.43454287]
Round210-------squared error: 43.0323 parameter: [12.2082188   1.14941683 -0.7075813
0.43317849]
Round211-------squared error: 42.6455 parameter: [12.23916771  1.15041464 -0.7105279
8  0.43181151]
Round212-------squared error: 42.2626 parameter: [12.26996187  1.15139965 -0.7134593
9  0.43044203]
Round213-------squared error: 41.8834 parameter: [12.30060206  1.15237197 -0.7163756
5  0.42907011]
Round214-------squared error: 41.5081 parameter: [12.33108905  1.15333174 -0.7192768
8  0.42769585]
Round215-------squared error: 41.1365 parameter: [12.36142361  1.15427909 -0.7221632
3  0.42631931]
Round216-------squared error: 40.7686 parameter: [12.39160649  1.15521414 -0.7250348
1  0.42494057]
Round217-------squared error: 40.4044 parameter: [12.42163845  1.156137   -0.7278917
5  0.42355971]
Round218-------squared error: 40.0438 parameter: [12.45152026  1.15704782 -0.7307341
7  0.42217681]
Round219-------squared error: 39.6868 parameter: [12.48125266  1.1579467  -0.7335622
0.42079194]
Round220-------squared error: 39.3334 parameter: [12.5108364   1.15883376 -0.7363759
6  0.41940517]
Round221-------squared error: 38.9834 parameter: [12.54027222  1.15970913 -0.7391755
7  0.41801657]
Round222-------squared error: 38.6370 parameter: [12.56956085  1.16057292 -0.7419611
5  0.41662622]
Round223-------squared error: 38.2940 parameter: [12.59870305  1.16142525 -0.7447328
1  0.41523418]
Round224-------squared error: 37.9544 parameter: [12.62769954  1.16226624 -0.7474906
7  0.41384053]
```

```
Round225-------squared error: 37.6182 parameter: [12.65655104  1.16309599 -0.7502348
6  0.41244534]
Round226-------squared error: 37.2854 parameter: [12.68525828  1.16391462 -0.7529654
7  0.41104866]
Round227-------squared error: 36.9559 parameter: [12.71382199  1.16472224 -0.7556826
3  0.40965058]
Round228-------squared error: 36.6296 parameter: [12.74224288  1.16551896 -0.7583864
5  0.40825115]
Round229-------squared error: 36.3066 parameter: [12.77052167  1.16630489 -0.7610770
4  0.40685043]
Round230-------squared error: 35.9869 parameter: [12.79865906  1.16708014 -0.7637545
0.4054485 ]
Round231-------squared error: 35.6703 parameter: [12.82665576  1.16784482 -0.7664189
5  0.40404542]
Round232-------squared error: 35.3568 parameter: [12.85451248  1.16859902 -0.7690705
0.40264125]
Round233-------squared error: 35.0465 parameter: [12.88222992  1.16934286 -0.7717092
5  0.40123605]
Round234-------squared error: 34.7393 parameter: [12.90980877  1.17007644 -0.7743353
1  0.39982988]
Round235-------squared error: 34.4351 parameter: [12.93724973  1.17079986 -0.7769487
7  0.3984228 ]
Round236-------squared error: 34.1339 parameter: [12.96455348  1.17151322 -0.7795497
6  0.39701488]
Round237-------squared error: 33.8358 parameter: [12.99172071  1.17221662 -0.7821383
5  0.39560616]
Round238-------squared error: 33.5406 parameter: [13.01875211  1.17291017 -0.7847146
7  0.39419671]
Round239-------squared error: 33.2484 parameter: [13.04564835  1.17359395 -0.7872788
1  0.39278659]
Round240-------squared error: 32.9590 parameter: [13.07241011  1.17426807 -0.7898308
6  0.39137585]
Round241-------squared error: 32.6726 parameter: [13.09903806  1.17493263 -0.7923709
3  0.38996454]
Round242-------squared error: 32.3890 parameter: [13.12553287  1.17558771 -0.7948991
2  0.38855272]
Round243-------squared error: 32.1082 parameter: [13.1518952   1.17623342 -0.7974155
1  0.38714045]
Round244-------squared error: 31.8302 parameter: [13.17812573  1.17686984 -0.7999202
1  0.38572778]
Round245-------squared error: 31.5550 parameter: [13.2042251   1.17749707 -0.8024133
2  0.38431475]
Round246-------squared error: 31.2825 parameter: [13.23019397  1.1781152  -0.8048949
1  0.38290143]
Round247-------squared error: 31.0127 parameter: [13.256033    1.17872432 -0.8073650
9  0.38148786]
Round248-------squared error: 30.7456 parameter: [13.28174284  1.17932452 -0.8098239
5  0.3800741 ]
Round249-------squared error: 30.4812 parameter: [13.30732412  1.17991588 -0.8122715
8  0.37866019]
Round250-------squared error: 30.2194 parameter: [13.3327775   1.1804985  -0.8147080
6  0.37724618]
Round251-------squared error: 29.9602 parameter: [13.35810361  1.18107246 -0.8171334
9  0.37583212]
Round252-------squared error: 29.7035 parameter: [13.3833031   1.18163785 -0.8195479
6  0.37441806]
Round253-------squared error: 29.4495 parameter: [13.40837658  1.18219475 -0.8219515
5  0.37300405]
Round254-------squared error: 29.1979 parameter: [13.4333247   1.18274325 -0.8243443
5  0.37159013]
Round255-------squared error: 28.9489 parameter: [13.45814807  1.18328342 -0.8267264
5  0.37017634]
Round256-------squared error: 28.7023 parameter: [13.48284733  1.18381536 -0.8290979
2  0.36876274]
```

```
Round257-------squared error: 28.4582 parameter: [13.5074231   1.18433914 -0.8314588
6  0.36734937]
Round258-------squared error: 28.2165 parameter: [13.53187598  1.18485485 -0.8338093
4  0.36593626]
Round259-------squared error: 27.9772 parameter: [13.5562066   1.18536255 -0.8361494
5  0.36452347]
Round260-------squared error: 27.7403 parameter: [13.58041557  1.18586234 -0.8384792
7  0.36311104]
Round261-------squared error: 27.5058 parameter: [13.60450349  1.18635429 -0.8407988
8  0.36169901]
Round262-------squared error: 27.2735 parameter: [13.62847097  1.18683847 -0.8431083
6  0.36028742]
Round263-------squared error: 27.0436 parameter: [13.65231862  1.18731497 -0.8454077
9  0.3588763 ]
Round264-------squared error: 26.8160 parameter: [13.67604703  1.18778386 -0.8476972
5  0.35746571]
Round265-------squared error: 26.5906 parameter: [13.69965679  1.18824521 -0.8499768
1  0.35605569]
Round266-------squared error: 26.3675 parameter: [13.72314851  1.1886991  -0.8522465
5  0.35464626]
Round267-------squared error: 26.1466 parameter: [13.74652276  1.18914561 -0.8545065
5  0.35323747]
Round268-------squared error: 25.9279 parameter: [13.76978015  1.18958479 -0.8567568
8  0.35182936]
Round269-------squared error: 25.7114 parameter: [13.79292125  1.19001673 -0.8589976
2  0.35042196]
Round270-------squared error: 25.4970 parameter: [13.81594664  1.1904415  -0.8612288
4  0.34901532]
Round271-------squared error: 25.2847 parameter: [13.83885691  1.19085917 -0.8634506
1  0.34760946]
Round272-------squared error: 25.0746 parameter: [13.86165263  1.1912698  -0.865663
0.34620443]
Round273-------squared error: 24.8665 parameter: [13.88433436  1.19167347 -0.8678661
0.34480025]
Round274-------squared error: 24.6605 parameter: [13.90690269  1.19207025 -0.8700599
6  0.34339698]
Round275-------squared error: 24.4566 parameter: [13.92935818  1.19246019 -0.8722446
6  0.34199462]
Round276-------squared error: 24.2546 parameter: [13.95170139  1.19284338 -0.8744202
7  0.34059324]
Round277-------squared error: 24.0547 parameter: [13.97393288  1.19321986 -0.8765868
5  0.33919284]
Round278-------squared error: 23.8568 parameter: [13.99605321  1.19358972 -0.8787444
8  0.33779348]
Round279-------squared error: 23.6608 parameter: [14.01806295  1.19395302 -0.8808932
2  0.33639518]
Round280-------squared error: 23.4668 parameter: [14.03996263  1.19430981 -0.8830331
4  0.33499797]
Round281-------squared error: 23.2747 parameter: [14.06175282  1.19466016 -0.8851643
1  0.33360189]
Round282-------squared error: 23.0845 parameter: [14.08343406  1.19500414 -0.8872867
8  0.33220696]
Round283-------squared error: 22.8962 parameter: [14.10500689  1.19534181 -0.8894006
3  0.33081321]
Round284-------squared error: 22.7098 parameter: [14.12647185  1.19567322 -0.8915059
2  0.32942069]
Round285-------squared error: 22.5252 parameter: [14.14782949  1.19599845 -0.8936027
2  0.32802941]
Round286-------squared error: 22.3425 parameter: [14.16908035  1.19631754 -0.8956910
8  0.3266394 ]
Round287-------squared error: 22.1616 parameter: [14.19022494  1.19663057 -0.8977710
7  0.3252507 ]
Round288-------squared error: 21.9824 parameter: [14.21126382  1.19693758 -0.8998427
5  0.32386333]
```

```
Round289-------squared error: 21.8051 parameter: [14.2321975   1.19723864 -0.9019061
8  0.32247731]
Round290-------squared error: 21.6295 parameter: [14.25302651  1.19753381 -0.9039614
2  0.32109269]
Round291-------squared error: 21.4557 parameter: [14.27375138  1.19782313 -0.9060085
4  0.31970948]
Round292-------squared error: 21.2835 parameter: [14.29437262  1.19810668 -0.9080475
9  0.31832771]
Round293-------squared error: 21.1131 parameter: [14.31489076  1.1983845  -0.9100786
3  0.31694741]
Round294-------squared error: 20.9444 parameter: [14.33530631  1.19865665 -0.9121017
2  0.3155686 ]
Round295-------squared error: 20.7773 parameter: [14.35561977  1.19892318 -0.9141169
1  0.3141913 ]
Round296-------squared error: 20.6119 parameter: [14.37583168  1.19918416 -0.9161242
7  0.31281555]
Round297-------squared error: 20.4482 parameter: [14.39594252  1.19943963 -0.9181238
5  0.31144137]
Round298-------squared error: 20.2861 parameter: [14.4159528   1.19968964 -0.9201157
1  0.31006878]
Round299-------squared error: 20.1256 parameter: [14.43586304  1.19993425 -0.9220999
0.3086978 ]
Round300-------squared error: 19.9666 parameter: [14.45567373  1.20017352 -0.9240764
8  0.30732847]
Round301-------squared error: 19.8093 parameter: [14.47538536  1.20040749 -0.9260455
0.30596079]
Round302-------squared error: 19.6535 parameter: [14.49499843  1.20063621 -0.9280070
2  0.3045948 ]
Round303-------squared error: 19.4993 parameter: [14.51451344  1.20085973 -0.9299610
9  0.30323052]
Round304-------squared error: 19.3465 parameter: [14.53393087  1.20107812 -0.9319077
5  0.30186796]
Round305-------squared error: 19.1953 parameter: [14.55325122  1.2012914  -0.9338470
8  0.30050716]
Round306-------squared error: 19.0456 parameter: [14.57247496  1.20149964 -0.9357791
1  0.29914812]
Round307-------squared error: 18.8974 parameter: [14.59160259  1.20170288 -0.9377039
0.29779088]
Round308-------squared error: 18.7507 parameter: [14.61063457  1.20190117 -0.9396215
0.29643545]
Round309-------squared error: 18.6054 parameter: [14.6295714   1.20209456 -0.9415319
6  0.29508186]
Round310-------squared error: 18.4616 parameter: [14.64841354  1.20228309 -0.9434353
3  0.29373012]
Round311-------squared error: 18.3191 parameter: [14.66716147  1.20246682 -0.9453316
6  0.29238025]
Round312-------squared error: 18.1781 parameter: [14.68581567  1.20264578 -0.9472209
9  0.29103227]
Round313-------squared error: 18.0385 parameter: [14.70437659  1.20282003 -0.9491033
9  0.2896862 ]
Round314-------squared error: 17.9003 parameter: [14.72284471  1.2029896  -0.9509788
9  0.28834206]
Round315-------squared error: 17.7634 parameter: [14.74122048  1.20315455 -0.9528475
4  0.28699987]
Round316-------squared error: 17.6279 parameter: [14.75950438  1.20331491 -0.9547094
0.28565964]
Round317-------squared error: 17.4938 parameter: [14.77769686  1.20347074 -0.9565645
0.2843214 ]
Round318-------squared error: 17.3610 parameter: [14.79579837  1.20362207 -0.9584129
0.28298516]
Round319-------squared error: 17.2295 parameter: [14.81380938  1.20376894 -0.9602546
3  0.28165093]
Round320-------squared error: 17.0992 parameter: [14.83173034  1.20391141 -0.9620897
5  0.28031874]
```

```
Round321-------squared error: 16.9703 parameter: [14.84956168  1.20404951 -0.9639183
0.2789886 ]
Round322-------squared error: 16.8427 parameter: [14.86730387  1.20418329 -0.9657403
3  0.27766052]
Round323-------squared error: 16.7163 parameter: [14.88495736  1.20431277 -0.9675558
8  0.27633453]
Round324-------squared error: 16.5912 parameter: [14.90252257  1.20443802 -0.9693649
8  0.27501063]
Round325-------squared error: 16.4673 parameter: [14.91999996  1.20455906 -0.9711677
0.27368885]
Round326-------squared error: 16.3447 parameter: [14.93738996  1.20467594 -0.9729640
6  0.2723692 ]
Round327-------squared error: 16.2232 parameter: [14.95469301  1.20478869 -0.9747541
2  0.27105169]
Round328-------squared error: 16.1030 parameter: [14.97190954  1.20489736 -0.9765379
1  0.26973633]
Round329-------squared error: 15.9840 parameter: [14.98903999  1.20500199 -0.9783154
8  0.26842315]
Round330-------squared error: 15.8661 parameter: [15.00608479  1.2051026  -0.9800868
6  0.26711215]
Round331-------squared error: 15.7494 parameter: [15.02304437  1.20519925 -0.9818521
1  0.26580335]
Round332-------squared error: 15.6339 parameter: [15.03991915  1.20529197 -0.9836112
5  0.26449676]
Round333-------squared error: 15.5195 parameter: [15.05670955  1.20538079 -0.9853643
3  0.2631924 ]
Round334-------squared error: 15.4062 parameter: [15.073416    1.20546575 -0.9871113
9  0.26189028]
Round335-------squared error: 15.2941 parameter: [15.09003892  1.20554689 -0.9888524
7  0.2605904 ]
Round336-------squared error: 15.1830 parameter: [15.10657873  1.20562425 -0.9905876
1  0.25929279]
Round337-------squared error: 15.0731 parameter: [15.12303584  1.20569786 -0.9923168
5  0.25799746]
Round338-------squared error: 14.9643 parameter: [15.13941066  1.20576775 -0.9940402
2  0.25670441]
Round339-------squared error: 14.8565 parameter: [15.1557036   1.20583397 -0.9957577
7  0.25541366]
Round340-------squared error: 14.7498 parameter: [15.17191509  1.20589654 -0.9974695
3  0.25412522]
Round341-------squared error: 14.6442 parameter: [15.18804551  1.20595551 -0.9991755
3  0.25283911]
Round342-------squared error: 14.5396 parameter: [15.20409528  1.2060109  -1.0008758
3  0.25155532]
Round343-------squared error: 14.4360 parameter: [15.22006481  1.20606274 -1.0025704
4  0.25027388]
Round344-------squared error: 14.3335 parameter: [15.23595448  1.20611108 -1.0042594
2  0.24899479]
Round345-------squared error: 14.2319 parameter: [15.25176471  1.20615594 -1.0059427
9  0.24771807]
Round346-------squared error: 14.1314 parameter: [15.26749589  1.20619737 -1.0076205
9  0.24644372]
Round347-------squared error: 14.0319 parameter: [15.28314841  1.20623538 -1.0092928
5  0.24517175]
Round348-------squared error: 13.9334 parameter: [15.29872266  1.20627001 -1.0109596
2  0.24390218]
Round349-------squared error: 13.8358 parameter: [15.31421905  1.2063013  -1.0126209
3  0.24263501]
Round350-------squared error: 13.7392 parameter: [15.32963796  1.20632927 -1.0142768
1  0.24137026]
Round351-------squared error: 13.6436 parameter: [15.34497977  1.20635396 -1.0159272
9  0.24010792]
Round352-------squared error: 13.5489 parameter: [15.36024487  1.20637539 -1.0175724
1  0.23884801]
```

```
Round353-------squared error: 13.4551 parameter: [15.37543364  1.20639361 -1.0192122
0.23759055]
Round354-------squared error: 13.3623 parameter: [15.39054648  1.20640863 -1.0208467
0.23633553]
Round355-------squared error: 13.2704 parameter: [15.40558374  1.20642049 -1.0224759
4  0.23508296]
Round356-------squared error: 13.1794 parameter: [15.42054582  1.20642921 -1.0240999
5  0.23383286]
Round357-------squared error: 13.0893 parameter: [15.43543309  1.20643483 -1.0257187
6  0.23258523]
Round358-------squared error: 13.0001 parameter: [15.45024593  1.20643738 -1.0273324
1  0.23134008]
Round359-------squared error: 12.9118 parameter: [15.4649847   1.20643688 -1.0289409
2  0.23009742]
Round360-------squared error: 12.8243 parameter: [15.47964978  1.20643337 -1.0305443
3  0.22885725]
Round361-------squared error: 12.7377 parameter: [15.49424153  1.20642687 -1.0321426
8  0.22761958]
Round362-------squared error: 12.6520 parameter: [15.50876032  1.2064174  -1.0337359
8  0.22638441]
Round363-------squared error: 12.5671 parameter: [15.52320652  1.206405   -1.0353242
8  0.22515177]
Round364-------squared error: 12.4831 parameter: [15.53758049  1.2063897  -1.0369076
0.22392164]
Round365-------squared error: 12.3999 parameter: [15.55188258  1.20637152 -1.0384859
7  0.22269404]
Round366-------squared error: 12.3175 parameter: [15.56611317  1.20635048 -1.0400594
2  0.22146897]
Round367-------squared error: 12.2359 parameter: [15.5802726   1.20632662 -1.0416279
9  0.22024645]
Round368-------squared error: 12.1551 parameter: [15.59436124  1.20629996 -1.0431916
9  0.21902647]
Round369-------squared error: 12.0752 parameter: [15.60837944  1.20627052 -1.0447505
7  0.21780904]
Round370-------squared error: 11.9960 parameter: [15.62232754  1.20623834 -1.0463046
4  0.21659416]
Round371-------squared error: 11.9176 parameter: [15.6362059   1.20620343 -1.0478539
4  0.21538185]
Round372-------squared error: 11.8400 parameter: [15.65001487  1.20616583 -1.0493985
0.21417211]
Round373-------squared error: 11.7631 parameter: [15.6637548   1.20612556 -1.0509383
4  0.21296494]
Round374-------squared error: 11.6870 parameter: [15.67742602  1.20608264 -1.0524734
9  0.21176035]
Round375-------squared error: 11.6117 parameter: [15.69102889  1.20603709 -1.0540039
8  0.21055834]
Round376-------squared error: 11.5371 parameter: [15.70456375  1.20598895 -1.0555298
4  0.20935892]
Round377-------squared error: 11.4632 parameter: [15.71803093  1.20593823 -1.0570510
9  0.20816209]
Round378-------squared error: 11.3901 parameter: [15.73143077  1.20588496 -1.0585677
6  0.20696785]
Round379-------squared error: 11.3177 parameter: [15.74476362  1.20582917 -1.0600798
7  0.20577622]
Round380-------squared error: 11.2460 parameter: [15.7580298   1.20577087 -1.0615874
6  0.20458719]
Round381-------squared error: 11.1750 parameter: [15.77122965  1.20571009 -1.0630905
5  0.20340077]
Round382-------squared error: 11.1047 parameter: [15.78436351  1.20564685 -1.0645891
7  0.20221696]
Round383-------squared error: 11.0351 parameter: [15.79743169  1.20558118 -1.0660833
3  0.20103577]
Round384-------squared error: 10.9662 parameter: [15.81043453  1.2055131  -1.0675730
7  0.19985719]
```

```
Round385-------squared error: 10.8980 parameter: [15.82337236  1.20544262 -1.0690584
2  0.19868124]
Round386-------squared error: 10.8304 parameter: [15.83624549  1.20536978 -1.0705393
9  0.19750791]
Round387-------squared error: 10.7635 parameter: [15.84905427  1.20529459 -1.0720160
1  0.19633722]
Round388-------squared error: 10.6973 parameter: [15.861799    1.20521707 -1.0734883
0.19516915]
Round389-------squared error: 10.6318 parameter: [15.87448     1.20513726 -1.0749563
0.19400372]
Round390-------squared error: 10.5668 parameter: [15.8870976   1.20505515 -1.0764200
2  0.19284093]
Round391-------squared error: 10.5026 parameter: [15.89965211  1.20497079 -1.0778794
9  0.19168078]
Round392-------squared error: 10.4389 parameter: [15.91214385  1.20488419 -1.0793347
4  0.19052327]
Round393-------squared error: 10.3759 parameter: [15.92457313  1.20479537 -1.0807857
7  0.18936841]
Round394-------squared error: 10.3135 parameter: [15.93694027  1.20470434 -1.0822326
3  0.18821619]
Round395-------squared error: 10.2517 parameter: [15.94924557  1.20461114 -1.0836753
3  0.18706662]
Round396-------squared error: 10.1905 parameter: [15.96148934  1.20451578 -1.0851139
0.18591971]
Round397-------squared error: 10.1300 parameter: [15.97367189  1.20441827 -1.0865483
5  0.18477545]
Round398-------squared error: 10.0700 parameter: [15.98579353  1.20431865 -1.0879787
1  0.18363384]
Round399-------squared error: 10.0106 parameter: [15.99785456  1.20421692 -1.0894050
1  0.18249489]
Round400-------squared error: 9.9518 parameter: [16.00985529  1.20411312 -1.09082726
0.1813586 ]
Round401-------squared error: 9.8936 parameter: [16.02179602  1.20400725 -1.09224549
0.18022497]
Round402-------squared error: 9.8360 parameter: [16.03367704  1.20389934 -1.09365972
0.179094  ]
Round403-------squared error: 9.7789 parameter: [16.04549865  1.2037894  -1.09506997
0.1779657 ]
Round404-------squared error: 9.7224 parameter: [16.05726116  1.20367745 -1.09647626
0.17684005]
Round405-------squared error: 9.6665 parameter: [16.06896485  1.20356352 -1.09787861
0.17571708]
Round406-------squared error: 9.6111 parameter: [16.08061003  1.20344762 -1.09927705
0.17459677]
Round407-------squared error: 9.5562 parameter: [16.09219698  1.20332976 -1.1006716
0.17347912]
Round408-------squared error: 9.5019 parameter: [16.10372599  1.20320997 -1.10206227
0.17236415]
Round409-------squared error: 9.4481 parameter: [16.11519736  1.20308826 -1.10344909
0.17125184]
Round410-------squared error: 9.3949 parameter: [16.12661137  1.20296465 -1.10483207
0.1701422 ]
Round411-------squared error: 9.3422 parameter: [16.13796832  1.20283916 -1.10621124
0.16903523]
Round412-------squared error: 9.2900 parameter: [16.14926848  1.20271181 -1.10758662
0.16793093]
Round413-------squared error: 9.2383 parameter: [16.16051213  1.2025826  -1.10895823
0.1668293 ]
Round414-------squared error: 9.1871 parameter: [16.17169957  1.20245157 -1.11032608
0.16573034]
Round415-------squared error: 9.1364 parameter: [16.18283108  1.20231872 -1.1116902
0.16463405]
Round416-------squared error: 9.0863 parameter: [16.19390692  1.20218407 -1.11305061
0.16354043]
```

```
Round417-------squared error: 9.0366 parameter: [16.20492739  1.20204764 -1.11440732
0.16244948]
Round418-------squared error: 8.9874 parameter: [16.21589275  1.20190944 -1.11576036
0.1613612 ]
Round419-------squared error: 8.9387 parameter: [16.22680328  1.20176949 -1.11710974
0.1602756 ]
Round420-------squared error: 8.8905 parameter: [16.23765927  1.20162781 -1.11845548
0.15919266]
Round421-------squared error: 8.8427 parameter: [16.24846097  1.20148441 -1.1197976
0.15811239]
Round422-------squared error: 8.7955 parameter: [16.25920867  1.20133931 -1.12113612
0.15703479]
Round423-------squared error: 8.7486 parameter: [16.26990262  1.20119252 -1.12247106
0.15595986]
Round424-------squared error: 8.7023 parameter: [16.28054311  1.20104406 -1.12380243
0.15488759]
Round425-------squared error: 8.6564 parameter: [16.2911304   1.20089394 -1.12513026
0.15381799]
Round426-------squared error: 8.6110 parameter: [16.30166474  1.20074217 -1.12645456
0.15275106]
Round427-------squared error: 8.5660 parameter: [16.31214642  1.20058879 -1.12777535
0.15168679]
Round428-------squared error: 8.5214 parameter: [16.32257569  1.20043378 -1.12909265
0.15062519]
Round429-------squared error: 8.4773 parameter: [16.33295281  1.20027718 -1.13040647
0.14956625]
Round430-------squared error: 8.4336 parameter: [16.34327804  1.200119   -1.13171683
0.14850998]
Round431-------squared error: 8.3904 parameter: [16.35355165  1.19995925 -1.13302376
0.14745636]
Round432-------squared error: 8.3475 parameter: [16.3637739   1.19979794 -1.13432725
0.1464054 ]
Round433-------squared error: 8.3051 parameter: [16.37394503  1.19963509 -1.13562734
0.14535711]
Round434-------squared error: 8.2632 parameter: [16.3840653   1.19947071 -1.13692404
0.14431147]
Round435-------squared error: 8.2216 parameter: [16.39413498  1.19930482 -1.13821737
0.14326848]
Round436-------squared error: 8.1804 parameter: [16.4041543   1.19913743 -1.13950734
0.14222815]
Round437-------squared error: 8.1397 parameter: [16.41412353  1.19896856 -1.14079397
0.14119048]
Round438-------squared error: 8.0993 parameter: [16.42404291  1.19879821 -1.14207727
0.14015545]
Round439-------squared error: 8.0594 parameter: [16.4339127   1.1986264  -1.14335727
0.13912307]
Round440-------squared error: 8.0198 parameter: [16.44373313  1.19845314 -1.14463397
0.13809334]
Round441-------squared error: 7.9806 parameter: [16.45350447  1.19827845 -1.1459074
0.13706626]
Round442-------squared error: 7.9418 parameter: [16.46322695  1.19810234 -1.14717756
0.13604182]
Round443-------squared error: 7.9034 parameter: [16.47290081  1.19792482 -1.14844448
0.13502002]
Round444-------squared error: 7.8654 parameter: [16.48252631  1.1977459  -1.14970817
0.13400086]
Round445-------squared error: 7.8277 parameter: [16.49210367  1.1975656  -1.15096865
0.13298435]
Round446-------squared error: 7.7904 parameter: [16.50163316  1.19738393 -1.15222593
0.13197046]
Round447-------squared error: 7.7535 parameter: [16.51111499  1.19720091 -1.15348002
0.13095921]
Round448-------squared error: 7.7169 parameter: [16.52054942  1.19701653 -1.15473094
0.12995059]
```

```
Round449-------squared error: 7.6807 parameter: [16.52993667  1.19683083 -1.15597871
0.1289446 ]
Round450-------squared error: 7.6449 parameter: [16.53927699  1.1966438  -1.15722334
0.12794124]
Round451-------squared error: 7.6094 parameter: [16.5485706   1.19645546 -1.15846485
0.1269405 ]
Round452-------squared error: 7.5743 parameter: [16.55781775  1.19626582 -1.15970325
0.12594239]
Round453-------squared error: 7.5395 parameter: [16.56701866  1.19607489 -1.16093855
0.12494689]
Round454-------squared error: 7.5050 parameter: [16.57617357  1.19588269 -1.16217076
0.12395401]
Round455-------squared error: 7.4709 parameter: [16.5852827   1.19568923 -1.16339992
0.12296375]
Round456-------squared error: 7.4371 parameter: [16.59434628  1.19549451 -1.16462602
0.1219761 ]
Round457-------squared error: 7.4037 parameter: [16.60336455  1.19529855 -1.16584908
0.12099105]
Round458-------squared error: 7.3705 parameter: [16.61233773  1.19510136 -1.16706911
0.12000861]
Round459-------squared error: 7.3377 parameter: [16.62126604  1.19490295 -1.16828613
0.11902878]
Round460-------squared error: 7.3053 parameter: [16.63014971  1.19470334 -1.16950016
0.11805155]
Round461-------squared error: 7.2731 parameter: [16.63898896  1.19450252 -1.1707112
0.11707691]
Round462-------squared error: 7.2413 parameter: [16.64778402  1.19430052 -1.17191928
0.11610487]
Round463-------squared error: 7.2097 parameter: [16.6565351   1.19409734 -1.17312439
0.11513543]
Round464-------squared error: 7.1785 parameter: [16.66524242  1.193893   -1.17432656
0.11416857]
Round465-------squared error: 7.1476 parameter: [16.67390621  1.1936875  -1.1755258
0.11320429]
Round466-------squared error: 7.1170 parameter: [16.68252668  1.19348086 -1.17672213
0.11224261]
Round467-------squared error: 7.0867 parameter: [16.69110405  1.19327308 -1.17791554
0.1112835 ]
Round468-------squared error: 7.0567 parameter: [16.69963853  1.19306417 -1.17910607
0.11032696]
Round469-------squared error: 7.0270 parameter: [16.70813033  1.19285415 -1.18029372
0.109373  ]
Round470-------squared error: 6.9975 parameter: [16.71657968  1.19264303 -1.1814785
0.10842161]
Round471-------squared error: 6.9684 parameter: [16.72498678  1.19243081 -1.18266043
0.10747279]
Round472-------squared error: 6.9395 parameter: [16.73335185  1.19221751 -1.18383952
0.10652653]
Round473-------squared error: 6.9110 parameter: [16.74167509  1.19200313 -1.18501578
0.10558283]
Round474-------squared error: 6.8827 parameter: [16.74995671  1.19178768 -1.18618922
0.10464169]
Round475-------squared error: 6.8547 parameter: [16.75819693  1.19157118 -1.18735986
0.1037031 ]
Round476-------squared error: 6.8269 parameter: [16.76639595  1.19135363 -1.18852771
0.10276706]
Round477-------squared error: 6.7995 parameter: [16.77455397  1.19113505 -1.18969277
0.10183357]
Round478-------squared error: 6.7723 parameter: [16.7826712   1.19091543 -1.19085507
0.10090262]
Round479-------squared error: 6.7454 parameter: [16.79074784  1.1906948  -1.19201462
0.09997421]
Round480-------squared error: 6.7187 parameter: [16.7987841   1.19047315 -1.19317142
0.09904834]
```

```
Round481-------squared error: 6.6923 parameter: [16.80678018  1.19025051 -1.19432549
0.098125  ]
Round482-------squared error: 6.6661 parameter: [16.81473628  1.19002687 -1.19547683
0.09720418]
Round483-------squared error: 6.6403 parameter: [16.8226526   1.18980225 -1.19662547
0.0962859 ]
Round484-------squared error: 6.6146 parameter: [16.83052934  1.18957666 -1.19777141
0.09537013]
Round485-------squared error: 6.5892 parameter: [16.83836669  1.1893501  -1.19891466
0.09445688]
Round486-------squared error: 6.5641 parameter: [16.84616486  1.18912258 -1.20005524
0.09354614]
Round487-------squared error: 6.5392 parameter: [16.85392403  1.18889411 -1.20119316
0.09263791]
Round488-------squared error: 6.5146 parameter: [16.86164441  1.18866471 -1.20232842
0.09173219]
Round489-------squared error: 6.4902 parameter: [16.86932619  1.18843437 -1.20346104
0.09082897]
Round490-------squared error: 6.4660 parameter: [16.87696956  1.1882031  -1.20459103
0.08992825]
Round491-------squared error: 6.4421 parameter: [16.88457471  1.18797093 -1.2057184
0.08903002]
Round492-------squared error: 6.4184 parameter: [16.89214184  1.18773784 -1.20684317
0.08813428]
Round493-------squared error: 6.3949 parameter: [16.89967113  1.18750386 -1.20796533
0.08724103]
Round494-------squared error: 6.3717 parameter: [16.90716277  1.18726898 -1.20908491
0.08635026]
Round495-------squared error: 6.3487 parameter: [16.91461696  1.18703323 -1.21020191
0.08546197]
Round496-------squared error: 6.3259 parameter: [16.92203387  1.18679659 -1.21131634
0.08457615]
Round497-------squared error: 6.3033 parameter: [16.9294137   1.18655909 -1.21242822
0.0836928 ]
Round498-------squared error: 6.2810 parameter: [16.93675664  1.18632073 -1.21353755
0.08281192]
Round499-------squared error: 6.2589 parameter: [16.94406285  1.18608152 -1.21464435
0.0819335 ]
Round500-------squared error: 6.2370 parameter: [16.95133254  1.18584147 -1.21574862
0.08105754]
Round501-------squared error: 6.2153 parameter: [16.95856587  1.18560057 -1.21685038
0.08018403]
Round502-------squared error: 6.1938 parameter: [16.96576305  1.18535885 -1.21794963
0.07931297]
Round503-------squared error: 6.1725 parameter: [16.97292423  1.18511631 -1.21904639
0.07844436]
Round504-------squared error: 6.1515 parameter: [16.98004961  1.18487295 -1.22014067
0.07757818]
Round505-------squared error: 6.1306 parameter: [16.98713936  1.18462878 -1.22123247
0.07671444]
Round506-------squared error: 6.1100 parameter: [16.99419366  1.18438382 -1.2223218
0.07585314]
Round507-------squared error: 6.0895 parameter: [17.0012127   1.18413806 -1.22340868
0.07499426]
Round508-------squared error: 6.0693 parameter: [17.00819663  1.18389152 -1.22449312
0.0741378 ]
Round509-------squared error: 6.0492 parameter: [17.01514565  1.18364419 -1.22557511
0.07328377]
Round510-------squared error: 6.0294 parameter: [17.02205992  1.1833961  -1.22665469
0.07243215]
Round511-------squared error: 6.0097 parameter: [17.02893962  1.18314724 -1.22773184
0.07158294]
Round512-------squared error: 5.9902 parameter: [17.03578492  1.18289762 -1.22880659
0.07073613]
```

```
Round513-------squared error: 5.9710 parameter: [17.042596    1.18264725 -1.22987894
0.06989173]
Round514-------squared error: 5.9519 parameter: [17.04937302  1.18239614 -1.23094891
0.06904972]
Round515-------squared error: 5.9330 parameter: [17.05611615  1.18214429 -1.23201649
0.06821011]
Round516-------squared error: 5.9142 parameter: [17.06282557  1.18189171 -1.2330817
0.06737288]
Round517-------squared error: 5.8957 parameter: [17.06950145  1.1816384  -1.23414456
0.06653804]
Round518-------squared error: 5.8773 parameter: [17.07614394  1.18138438 -1.23520506
0.06570558]
Round519-------squared error: 5.8592 parameter: [17.08275322  1.18112964 -1.23626321
0.06487549]
Round520-------squared error: 5.8412 parameter: [17.08932945  1.1808742  -1.23731904
0.06404778]
Round521-------squared error: 5.8233 parameter: [17.0958728   1.18061806 -1.23837254
0.06322243]
Round522-------squared error: 5.8057 parameter: [17.10238344  1.18036123 -1.23942372
0.06239944]
Round523-------squared error: 5.7882 parameter: [17.10886152  1.18010371 -1.24047259
0.0615788 ]
Round524-------squared error: 5.7709 parameter: [17.11530722  1.17984551 -1.24151917
0.06076052]
Round525-------squared error: 5.7538 parameter: [17.12172068  1.17958664 -1.24256346
0.05994459]
Round526-------squared error: 5.7368 parameter: [17.12810208  1.1793271  -1.24360546
0.05913099]
Round527-------squared error: 5.7200 parameter: [17.13445157  1.1790669  -1.24464519
0.05831974]
Round528-------squared error: 5.7033 parameter: [17.14076931  1.17880604 -1.24568266
0.05751082]
Round529-------squared error: 5.6869 parameter: [17.14705546  1.17854453 -1.24671787
0.05670423]
Round530-------squared error: 5.6705 parameter: [17.15331018  1.17828238 -1.24775084
0.05589996]
Round531-------squared error: 5.6544 parameter: [17.15953363  1.17801959 -1.24878156
0.05509801]
Round532-------squared error: 5.6384 parameter: [17.16572597  1.17775616 -1.24981006
0.05429838]
Round533-------squared error: 5.6225 parameter: [17.17188734  1.17749211 -1.25083633
0.05350106]
Round534-------squared error: 5.6068 parameter: [17.1780179   1.17722744 -1.25186038
0.05270604]
Round535-------squared error: 5.5913 parameter: [17.18411781  1.17696216 -1.25288224
0.05191332]
Round536-------squared error: 5.5759 parameter: [17.19018722  1.17669626 -1.25390189
0.0511229 ]
Round537-------squared error: 5.5606 parameter: [17.19622628  1.17642976 -1.25491935
0.05033477]
Round538-------squared error: 5.5455 parameter: [17.20223515  1.17616266 -1.25593463
0.04954893]
Round539-------squared error: 5.5306 parameter: [17.20821398  1.17589497 -1.25694773
0.04876537]
Round540-------squared error: 5.5158 parameter: [17.21416291  1.17562669 -1.25795867
0.04798408]
Round541-------squared error: 5.5011 parameter: [17.22008209  1.17535783 -1.25896745
0.04720507]
Round542-------squared error: 5.4866 parameter: [17.22597168  1.17508839 -1.25997408
0.04642833]
Round543-------squared error: 5.4722 parameter: [17.23183182  1.17481838 -1.26097856
0.04565385]
Round544-------squared error: 5.4580 parameter: [17.23766266  1.1745478  -1.26198091
0.04488162]
```

```
Round545-------squared error: 5.4439 parameter: [17.24346435  1.17427666 -1.26298114
0.04411165]
Round546-------squared error: 5.4300 parameter: [17.24923703  1.17400496 -1.26397924
0.04334393]
Round547-------squared error: 5.4161 parameter: [17.25498084  1.17373272 -1.26497523
0.04257845]
Round548-------squared error: 5.4024 parameter: [17.26069594  1.17345992 -1.26596911
0.04181521]
Round549-------squared error: 5.3889 parameter: [17.26638246  1.17318659 -1.26696089
0.0410542 ]
Round550-------squared error: 5.3755 parameter: [17.27204055  1.17291272 -1.26795059
0.04029542]
Round551-------squared error: 5.3622 parameter: [17.27767035  1.17263832 -1.2689382
0.03953887]
Round552-------squared error: 5.3490 parameter: [17.28327199  1.17236339 -1.26992374
0.03878453]
Round553-------squared error: 5.3360 parameter: [17.28884563  1.17208794 -1.2709072
0.03803241]
Round554-------squared error: 5.3231 parameter: [17.29439141  1.17181197 -1.27188861
0.0372825 ]
Round555-------squared error: 5.3103 parameter: [17.29990945  1.17153549 -1.27286796
0.0365348 ]
Round556-------squared error: 5.2976 parameter: [17.3053999   1.17125851 -1.27384526
0.03578929]
Round557-------squared error: 5.2851 parameter: [17.3108629   1.17098102 -1.27482053
0.03504598]
Round558-------squared error: 5.2726 parameter: [17.31629859  1.17070303 -1.27579376
0.03430486]
Round559-------squared error: 5.2604 parameter: [17.32170709  1.17042455 -1.27676497
0.03356592]
Round560-------squared error: 5.2482 parameter: [17.32708856  1.17014559 -1.27773415
0.03282917]
Round561-------squared error: 5.2361 parameter: [17.33244312  1.16986613 -1.27870133
0.03209459]
Round562-------squared error: 5.2242 parameter: [17.3377709   1.1695862  -1.2796665
0.03136218]
Round563-------squared error: 5.2123 parameter: [17.34307205  1.1693058  -1.28062967
0.03063193]
Round564-------squared error: 5.2006 parameter: [17.34834669  1.16902492 -1.28159085
0.02990385]
Round565-------squared error: 5.1890 parameter: [17.35359495  1.16874358 -1.28255004
0.02917792]
Round566-------squared error: 5.1775 parameter: [17.35881698  1.16846177 -1.28350726
0.02845415]
Round567-------squared error: 5.1662 parameter: [17.36401289  1.16817951 -1.28446251
0.02773252]
Round568-------squared error: 5.1549 parameter: [17.36918283  1.1678968  -1.28541579
0.02701303]
Round569-------squared error: 5.1437 parameter: [17.37432691  1.16761363 -1.28636711
0.02629567]
Round570-------squared error: 5.1327 parameter: [17.37944528  1.16733003 -1.28731648
0.02558045]
Round571-------squared error: 5.1217 parameter: [17.38453805  1.16704598 -1.28826391
0.02486736]
Round572-------squared error: 5.1109 parameter: [17.38960536  1.16676149 -1.2892094
0.02415638]
Round573-------squared error: 5.1002 parameter: [17.39464734  1.16647658 -1.29015296
0.02344753]
Round574-------squared error: 5.0896 parameter: [17.3996641   1.16619123 -1.29109459
0.02274078]
Round575-------squared error: 5.0790 parameter: [17.40465578  1.16590546 -1.2920343
0.02203614]
Round576-------squared error: 5.0686 parameter: [17.4096225   1.16561927 -1.2929721
0.02133361]
```

```
Round577-------squared error: 5.0583 parameter: [17.41456439  1.16533267 -1.29390799
0.02063317]
Round578-------squared error: 5.0481 parameter: [17.41948157  1.16504565 -1.29484198
0.01993482]
Round579-------squared error: 5.0379 parameter: [17.42437416  1.16475823 -1.29577408
0.01923856]
Round580-------squared error: 5.0279 parameter: [17.42924229  1.1644704  -1.29670429
0.01854438]
Round581-------squared error: 5.0180 parameter: [17.43408608  1.16418217 -1.29763262
0.01785228]
Round582-------squared error: 5.0081 parameter: [ 1.74389056e+01  1.16389354e+00 -1.
29855907e+00  1.71622470e-02]
Round583-------squared error: 4.9984 parameter: [ 1.74437011e+01  1.16360453e+00 -1.
29948366e+00  1.64742853e-02]
Round584-------squared error: 4.9888 parameter: [ 1.74484726e+01  1.16331512e+00 -1.
30040638e+00  1.57883860e-02]
Round585-------squared error: 4.9792 parameter: [ 1.74532202e+01  1.16302533e+00 -1.
30132724e+00  1.51045443e-02]
Round586-------squared error: 4.9697 parameter: [ 1.74579441e+01  1.16273516e+00 -1.
30224625e+00  1.44227552e-02]
Round587-------squared error: 4.9604 parameter: [ 1.74626444e+01  1.16244461e+00 -1.
30316342e+00  1.37430138e-02]
Round588-------squared error: 4.9511 parameter: [ 1.74673212e+01  1.16215369e+00 -1.
30407875e+00  1.30653153e-02]
Round589-------squared error: 4.9419 parameter: [ 1.74719746e+01  1.16186239e+00 -1.
30499224e+00  1.23896546e-02]
Round590-------squared error: 4.9328 parameter: [ 1.74766047e+01  1.16157073e+00 -1.
30590391e+00  1.17160269e-02]
Round591-------squared error: 4.9238 parameter: [ 1.74812117e+01  1.16127871e+00 -1.
30681375e+00  1.10444272e-02]
Round592-------squared error: 4.9149 parameter: [ 1.74857956e+01  1.16098633e+00 -1.
30772178e+00  1.03748507e-02]
Round593-------squared error: 4.9060 parameter: [ 1.74903567e+01  1.16069359e+00 -1.
30862800e+00  9.70729245e-03]
Round594-------squared error: 4.8973 parameter: [ 1.74948949e+01  1.16040050e+00 -1.
30953241e+00  9.04174752e-03]
Round595-------squared error: 4.8886 parameter: [ 1.74994104e+01  1.16010706e+00 -1.
31043503e+00  8.37821101e-03]
Round596-------squared error: 4.8800 parameter: [ 1.75039034e+01  1.15981328e+00 -1.
31133585e+00  7.71667802e-03]
Round597-------squared error: 4.8715 parameter: [ 1.75083738e+01  1.15951915e+00 -1.
31223488e+00  7.05714366e-03]
Round598-------squared error: 4.8631 parameter: [ 1.75128220e+01  1.15922469e+00 -1.
31313214e+00  6.39960301e-03]
Round599-------squared error: 4.8547 parameter: [ 1.75172479e+01  1.15892989e+00 -1.
31402762e+00  5.74405119e-03]
Round600-------squared error: 4.8465 parameter: [ 1.75216516e+01  1.15863476e+00 -1.
31492132e+00  5.09048331e-03]
Round601-------squared error: 4.8383 parameter: [ 1.75260334e+01  1.15833930e+00 -1.
31581326e+00  4.43889446e-03]
Round602-------squared error: 4.8302 parameter: [ 1.75303932e+01  1.15804351e+00 -1.
31670345e+00  3.78927976e-03]
Round603-------squared error: 4.8222 parameter: [ 1.75347312e+01  1.15774740e+00 -1.
31759187e+00  3.14163434e-03]
Round604-------squared error: 4.8142 parameter: [ 1.75390476e+01  1.15745098e+00 -1.
31847855e+00  2.49595329e-03]
Round605-------squared error: 4.8063 parameter: [ 1.75433423e+01  1.15715424e+00 -1.
31936349e+00  1.85223175e-03]
Round606-------squared error: 4.7985 parameter: [ 1.75476156e+01  1.15685719e+00 -1.
32024669e+00  1.21046484e-03]
Round607-------squared error: 4.7908 parameter: [ 1.75518675e+01  1.15655982e+00 -1.
32112815e+00  5.70647688e-04]
Round608-------squared error: 4.7832 parameter: [ 1.75560982e+01  1.15626216e+00 -1.
32200789e+00 -6.72245775e-05]
```

```
Round609-------squared error: 4.7756 parameter: [ 1.75603077e+01  1.15596419e+00 -1.
32288591e+00 -7.03156820e-04]
Round610-------squared error: 4.7681 parameter: [ 1.75644962e+01  1.15566592e+00 -1.
32376221e+00 -1.33715390e-03]
Round611-------squared error: 4.7607 parameter: [ 1.75686637e+01  1.15536735e+00 -1.
32463680e+00 -1.96922068e-03]
Round612-------squared error: 4.7533 parameter: [ 1.75728104e+01  1.15506849e+00 -1.
32550968e+00 -2.59936201e-03]
Round613-------squared error: 4.7460 parameter: [ 1.75769363e+01  1.15476934e+00 -1.
32638087e+00 -3.22758273e-03]
Round614-------squared error: 4.7388 parameter: [ 1.75810416e+01  1.15446990e+00 -1.
32725035e+00 -3.85388770e-03]
Round615-------squared error: 4.7316 parameter: [ 1.75851264e+01  1.15417018e+00 -1.
32811815e+00 -4.47828176e-03]
Round616-------squared error: 4.7246 parameter: [ 1.75891908e+01  1.15387018e+00 -1.
32898426e+00 -5.10076974e-03]
Round617-------squared error: 4.7175 parameter: [ 1.75932349e+01  1.15356990e+00 -1.
32984869e+00 -5.72135648e-03]
Round618-------squared error: 4.7106 parameter: [ 1.75972587e+01  1.15326934e+00 -1.
33071145e+00 -6.34004680e-03]
Round619-------squared error: 4.7037 parameter: [ 1.76012624e+01  1.15296851e+00 -1.
33157253e+00 -6.95684553e-03]
Round620-------squared error: 4.6969 parameter: [ 1.76052461e+01  1.15266742e+00 -1.
33243195e+00 -7.57175749e-03]
Round621-------squared error: 4.6901 parameter: [ 1.76092098e+01  1.15236605e+00 -1.
33328971e+00 -8.18478748e-03]
Round622-------squared error: 4.6835 parameter: [ 1.76131538e+01  1.15206442e+00 -1.
33414582e+00 -8.79594033e-03]
Round623-------squared error: 4.6768 parameter: [ 1.76170780e+01  1.15176253e+00 -1.
33500027e+00 -9.40522082e-03]
Round624-------squared error: 4.6703 parameter: [ 1.76209826e+01  1.15146038e+00 -1.
33585308e+00 -1.00126338e-02]
Round625-------squared error: 4.6638 parameter: [ 1.76248677e+01  1.15115798e+00 -1.
33670425e+00 -1.06181840e-02]
Round626-------squared error: 4.6574 parameter: [ 1.76287334e+01  1.15085532e+00 -1.
33755378e+00 -1.12218762e-02]
Round627-------squared error: 4.6510 parameter: [ 1.76325797e+01  1.15055242e+00 -1.
33840169e+00 -1.18237152e-02]
Round628-------squared error: 4.6447 parameter: [ 1.76364068e+01  1.15024926e+00 -1.
33924796e+00 -1.24237059e-02]
Round629-------squared error: 4.6384 parameter: [ 1.76402148e+01  1.14994586e+00 -1.
34009262e+00 -1.30218529e-02]
Round630-------squared error: 4.6322 parameter: [ 1.76440037e+01  1.14964222e+00 -1.
34093566e+00 -1.36181610e-02]
Round631-------squared error: 4.6261 parameter: [ 1.76477737e+01  1.14933834e+00 -1.
34177709e+00 -1.42126351e-02]
Round632-------squared error: 4.6200 parameter: [ 1.76515248e+01  1.14903423e+00 -1.
34261691e+00 -1.48052798e-02]
Round633-------squared error: 4.6140 parameter: [ 1.76552572e+01  1.14872988e+00 -1.
34345513e+00 -1.53960999e-02]
Round634-------squared error: 4.6081 parameter: [ 1.76589709e+01  1.14842530e+00 -1.
34429175e+00 -1.59851001e-02]
Round635-------squared error: 4.6022 parameter: [ 1.76626661e+01  1.14812049e+00 -1.
34512678e+00 -1.65722852e-02]
Round636-------squared error: 4.5963 parameter: [ 1.76663427e+01  1.14781545e+00 -1.
34596022e+00 -1.71576600e-02]
Round637-------squared error: 4.5905 parameter: [17.67000101  1.14751019 -1.34679207
-0.01774123]
Round638-------squared error: 4.5848 parameter: [17.67364101  1.14720471 -1.34762235
-0.018323  ]
Round639-------squared error: 4.5791 parameter: [17.6772628   1.14689901 -1.34845106
-0.01890297]
Round640-------squared error: 4.5735 parameter: [17.68086649  1.1465931  -1.34927819
-0.01948115]
```

```
Round641-------squared error: 4.5679 parameter: [17.68445216  1.14628697 -1.35010376
-0.02005754]
Round642-------squared error: 4.5624 parameter: [17.68801989  1.14598063 -1.35092777
-0.02063215]
Round643-------squared error: 4.5569 parameter: [17.69156979  1.14567408 -1.35175022
-0.02120499]
Round644-------squared error: 4.5515 parameter: [17.69510195  1.14536733 -1.35257112
-0.02177605]
Round645-------squared error: 4.5461 parameter: [17.69861644  1.14506037 -1.35339047
-0.02234534]
Round646-------squared error: 4.5408 parameter: [17.70211335  1.14475321 -1.35420828
-0.02291287]
Round647-------squared error: 4.5356 parameter: [17.70559279  1.14444585 -1.35502455
-0.02347864]
Round648-------squared error: 4.5304 parameter: [17.70905482  1.1441383  -1.35583929
-0.02404266]
Round649-------squared error: 4.5252 parameter: [17.71249955  1.14383055 -1.35665249
-0.02460493]
Round650-------squared error: 4.5201 parameter: [17.71592705  1.14352261 -1.35746417
-0.02516545]
Round651-------squared error: 4.5150 parameter: [17.71933742  1.14321448 -1.35827433
-0.02572423]
Round652-------squared error: 4.5100 parameter: [17.72273073  1.14290616 -1.35908298
-0.02628128]
Round653-------squared error: 4.5050 parameter: [17.72610708  1.14259766 -1.35989011
-0.0268366 ]
Round654-------squared error: 4.5001 parameter: [17.72946654  1.14228897 -1.36069573
-0.02739019]
Round655-------squared error: 4.4952 parameter: [17.73280921  1.14198011 -1.36149985
-0.02794205]
Round656-------squared error: 4.4904 parameter: [17.73613516  1.14167106 -1.36230247
-0.02849221]
Round657-------squared error: 4.4856 parameter: [17.73944449  1.14136184 -1.36310359
-0.02904064]
Round658-------squared error: 4.4809 parameter: [17.74273726  1.14105245 -1.36390322
-0.02958737]
Round659-------squared error: 4.4762 parameter: [17.74601358  1.14074288 -1.36470137
-0.0301324 ]
Round660-------squared error: 4.4715 parameter: [17.74927351  1.14043315 -1.36549803
-0.03067573]
Round661-------squared error: 4.4669 parameter: [17.75251714  1.14012325 -1.36629321
-0.03121736]
Round662-------squared error: 4.4624 parameter: [17.75574456  1.13981318 -1.36708692
-0.03175731]
Round663-------squared error: 4.4578 parameter: [17.75895583  1.13950295 -1.36787916
-0.03229557]
Round664-------squared error: 4.4534 parameter: [17.76215105  1.13919256 -1.36866993
-0.03283215]
Round665-------squared error: 4.4489 parameter: [17.7653303   1.13888201 -1.36945923
-0.03336705]
Round666-------squared error: 4.4445 parameter: [17.76849365  1.1385713  -1.37024708
-0.03390028]
Round667-------squared error: 4.4402 parameter: [17.77164118  1.13826044 -1.37103348
-0.03443185]
Round668-------squared error: 4.4359 parameter: [17.77477297  1.13794943 -1.37181842
-0.03496175]
Round669-------squared error: 4.4316 parameter: [17.77788911  1.13763826 -1.37260192
-0.03548999]
Round670-------squared error: 4.4274 parameter: [17.78098966  1.13732695 -1.37338397
-0.03601658]
Round671-------squared error: 4.4232 parameter: [17.78407471  1.13701549 -1.37416459
-0.03654152]
Round672-------squared error: 4.4190 parameter: [17.78714434  1.13670389 -1.37494377
-0.03706482]
```

```
Round673-------squared error: 4.4149 parameter: [17.79019862  1.13639214 -1.37572152
-0.03758648]
Round674-------squared error: 4.4108 parameter: [17.79323763  1.13608026 -1.37649784
-0.0381065 ]
Round675-------squared error: 4.4068 parameter: [17.79626144  1.13576823 -1.37727274
-0.03862489]
Round676-------squared error: 4.4028 parameter: [17.79927013  1.13545607 -1.37804623
-0.03914165]
Round677-------squared error: 4.3989 parameter: [17.80226378  1.13514377 -1.37881829
-0.03965679]
Round678-------squared error: 4.3949 parameter: [17.80524246  1.13483135 -1.37958895
-0.04017032]
Round679-------squared error: 4.3910 parameter: [17.80820625  1.13451879 -1.38035819
-0.04068223]
Round680-------squared error: 4.3872 parameter: [17.81115522  1.1342061  -1.38112604
-0.04119253]
Round681-------squared error: 4.3834 parameter: [17.81408944  1.13389328 -1.38189248
-0.04170123]
Round682-------squared error: 4.3796 parameter: [17.81700899  1.13358034 -1.38265753
-0.04220832]
Round683-------squared error: 4.3759 parameter: [17.81991395  1.13326728 -1.38342118
-0.04271382]
Round684-------squared error: 4.3722 parameter: [17.82280438  1.1329541  -1.38418344
-0.04321773]
Round685-------squared error: 4.3685 parameter: [17.82568036  1.13264079 -1.38494432
-0.04372005]
Round686-------squared error: 4.3649 parameter: [17.82854196  1.13232737 -1.38570382
-0.04422079]
Round687-------squared error: 4.3612 parameter: [17.83138925  1.13201383 -1.38646194
-0.04471995]
Round688-------squared error: 4.3577 parameter: [17.8342223   1.13170018 -1.38721869
-0.04521754]
Round689-------squared error: 4.3541 parameter: [17.83704119  1.13138641 -1.38797407
-0.04571356]
Round690-------squared error: 4.3506 parameter: [17.83984598  1.13107254 -1.38872808
-0.04620801]
Round691-------squared error: 4.3472 parameter: [17.84263675  1.13075856 -1.38948072
-0.0467009 ]
Round692-------squared error: 4.3437 parameter: [17.84541357  1.13044447 -1.39023201
-0.04719224]
Round693-------squared error: 4.3403 parameter: [17.8481765   1.13013027 -1.39098194
-0.04768202]
Round694-------squared error: 4.3370 parameter: [17.85092562  1.12981597 -1.39173052
-0.04817025]
Round695-------squared error: 4.3336 parameter: [17.85366099  1.12950157 -1.39247775
-0.04865694]
Round696-------squared error: 4.3303 parameter: [17.85638269  1.12918707 -1.39322364
-0.0491421 ]
Round697-------squared error: 4.3270 parameter: [17.85909077  1.12887247 -1.39396818
-0.04962571]
Round698-------squared error: 4.3238 parameter: [17.86178532  1.12855777 -1.39471139
-0.0501078 ]
Round699-------squared error: 4.3205 parameter: [17.86446639  1.12824298 -1.39545326
-0.05058836]
Round700-------squared error: 4.3174 parameter: [17.86713406  1.1279281  -1.3961938
-0.05106739]
Round701-------squared error: 4.3142 parameter: [17.86978839  1.12761312 -1.39693301
-0.05154491]
Round702-------squared error: 4.3111 parameter: [17.87242945  1.12729806 -1.3976709
-0.05202091]
Round703-------squared error: 4.3080 parameter: [17.8750573   1.1269829  -1.39840746
-0.05249541]
Round704-------squared error: 4.3049 parameter: [17.87767201  1.12666766 -1.39914271
-0.0529684 ]
```

```
Round705-------squared error: 4.3018 parameter: [17.88027365  1.12635234 -1.39987665
-0.05343988]
Round706-------squared error: 4.2988 parameter: [17.88286228  1.12603693 -1.40060928
-0.05390987]
Round707-------squared error: 4.2958 parameter: [17.88543797  1.12572143 -1.40134059
-0.05437837]
Round708-------squared error: 4.2929 parameter: [17.88800078  1.12540586 -1.40207061
-0.05484538]
Round709-------squared error: 4.2899 parameter: [17.89055078  1.12509021 -1.40279932
-0.0553109 ]
Round710-------squared error: 4.2870 parameter: [17.89308803  1.12477448 -1.40352674
-0.05577494]
Round711-------squared error: 4.2842 parameter: [17.89561259  1.12445868 -1.40425287
-0.05623751]
Round712-------squared error: 4.2813 parameter: [17.89812452  1.1241428  -1.4049777
-0.05669861]
Round713-------squared error: 4.2785 parameter: [17.9006239   1.12382685 -1.40570125
-0.05715823]
Round714-------squared error: 4.2757 parameter: [17.90311078  1.12351083 -1.40642351
-0.0576164 ]
Round715-------squared error: 4.2729 parameter: [17.90558523  1.12319474 -1.40714449
-0.0580731 ]
Round716-------squared error: 4.2702 parameter: [17.9080473   1.12287858 -1.4078642
-0.05852835]
Round717-------squared error: 4.2674 parameter: [17.91049706  1.12256236 -1.40858263
-0.05898214]
Round718-------squared error: 4.2647 parameter: [17.91293458  1.12224607 -1.40929979
-0.05943449]
Round719-------squared error: 4.2621 parameter: [17.91535991  1.12192971 -1.41001569
-0.0598854 ]
Round720-------squared error: 4.2594 parameter: [17.91777311  1.1216133  -1.41073032
-0.06033486]
Round721-------squared error: 4.2568 parameter: [17.92017424  1.12129682 -1.41144369
-0.06078289]
Round722-------squared error: 4.2542 parameter: [17.92256337  1.12098029 -1.4121558
-0.06122949]
Round723-------squared error: 4.2516 parameter: [17.92494055  1.12066369 -1.41286666
-0.06167467]
Round724-------squared error: 4.2491 parameter: [17.92730585  1.12034704 -1.41357627
-0.06211842]
Round725-------squared error: 4.2465 parameter: [17.92965932  1.12003034 -1.41428463
-0.06256075]
Round726-------squared error: 4.2440 parameter: [17.93200102  1.11971358 -1.41499174
-0.06300166]
Round727-------squared error: 4.2416 parameter: [17.93433102  1.11939677 -1.41569761
-0.06344116]
Round728-------squared error: 4.2391 parameter: [17.93664936  1.11907991 -1.41640224
-0.06387926]
Round729-------squared error: 4.2367 parameter: [17.93895612  1.118763   -1.41710564
-0.06431596]
Round730-------squared error: 4.2342 parameter: [17.94125134  1.11844605 -1.41780781
-0.06475125]
Round731-------squared error: 4.2318 parameter: [17.94353508  1.11812904 -1.41850874
-0.06518515]
Round732-------squared error: 4.2295 parameter: [17.9458074   1.11781199 -1.41920845
-0.06561766]
Round733-------squared error: 4.2271 parameter: [17.94806837  1.1174949  -1.41990694
-0.06604878]
Round734-------squared error: 4.2248 parameter: [17.95031803  1.11717777 -1.42060421
-0.06647852]
Round735-------squared error: 4.2225 parameter: [17.95255644  1.11686059 -1.42130026
-0.06690688]
Round736-------squared error: 4.2202 parameter: [17.95478365  1.11654337 -1.42199509
-0.06733386]
```

```
Round737-------squared error: 4.2179 parameter: [17.95699974  1.11622612 -1.42268872
-0.06775947]
Round738-------squared error: 4.2157 parameter: [17.95920474  1.11590883 -1.42338113
-0.06818372]
Round739-------squared error: 4.2135 parameter: [17.96139871  1.1155915  -1.42407235
-0.0686066 ]
Round740-------squared error: 4.2113 parameter: [17.96358172  1.11527414 -1.42476236
-0.06902812]
Round741-------squared error: 4.2091 parameter: [17.96575381  1.11495675 -1.42545117
-0.06944828]
Round742-------squared error: 4.2069 parameter: [17.96791504  1.11463932 -1.42613878
-0.0698671 ]
Round743-------squared error: 4.2048 parameter: [17.97006547  1.11432186 -1.4268252
-0.07028456]
Round744-------squared error: 4.2027 parameter: [17.97220514  1.11400438 -1.42751044
-0.07070068]
Round745-------squared error: 4.2006 parameter: [17.97433411  1.11368686 -1.42819448
-0.07111546]
Round746-------squared error: 4.1985 parameter: [17.97645244  1.11336932 -1.42887734
-0.07152891]
Round747-------squared error: 4.1964 parameter: [17.97856018  1.11305175 -1.42955902
-0.07194102]
Round748-------squared error: 4.1944 parameter: [17.98065738  1.11273416 -1.43023952
-0.0723518 ]
Round749-------squared error: 4.1923 parameter: [17.98274409  1.11241655 -1.43091885
-0.07276126]
Round750-------squared error: 4.1903 parameter: [17.98482037  1.11209891 -1.431597
-0.07316939]
Round751-------squared error: 4.1883 parameter: [17.98688627  1.11178126 -1.43227398
-0.07357621]
Round752-------squared error: 4.1863 parameter: [17.98894184  1.11146358 -1.4329498
-0.07398172]
Round753-------squared error: 4.1844 parameter: [17.99098713  1.11114588 -1.43362445
-0.07438591]
Round754-------squared error: 4.1825 parameter: [17.99302219  1.11082817 -1.43429794
-0.0747888 ]
Round755-------squared error: 4.1805 parameter: [17.99504708  1.11051045 -1.43497027
-0.07519039]
Round756-------squared error: 4.1786 parameter: [17.99706185  1.1101927  -1.43564145
-0.07559067]
Round757-------squared error: 4.1767 parameter: [17.99906654  1.10987495 -1.43631148
-0.07598967]
Round758-------squared error: 4.1749 parameter: [18.00106121  1.10955718 -1.43698035
-0.07638737]
Round759-------squared error: 4.1730 parameter: [18.0030459   1.1092394  -1.43764808
-0.07678378]
Round760-------squared error: 4.1712 parameter: [18.00502067  1.10892161 -1.43831466
-0.07717891]
Round761-------squared error: 4.1694 parameter: [18.00698557  1.10860381 -1.4389801
-0.07757276]
Round762-------squared error: 4.1676 parameter: [18.00894064  1.10828601 -1.43964441
-0.07796533]
Round763-------squared error: 4.1658 parameter: [18.01088594  1.1079682  -1.44030757
-0.07835664]
Round764-------squared error: 4.1640 parameter: [18.01282151  1.10765038 -1.44096961
-0.07874667]
Round765-------squared error: 4.1622 parameter: [18.0147474   1.10733256 -1.44163051
-0.07913543]
Round766-------squared error: 4.1605 parameter: [18.01666366  1.10701473 -1.44229029
-0.07952294]
Round767-------squared error: 4.1588 parameter: [18.01857034  1.1066969  -1.44294894
-0.07990919]
Round768-------squared error: 4.1571 parameter: [18.02046749  1.10637907 -1.44360646
-0.08029418]
```

```
Round769-------squared error: 4.1554 parameter: [18.02235515  1.10606125 -1.44426287
-0.08067792]
Round770-------squared error: 4.1537 parameter: [18.02423338  1.10574342 -1.44491816
-0.08106042]
Round771-------squared error: 4.1520 parameter: [18.02610221  1.10542559 -1.44557234
-0.08144167]
Round772-------squared error: 4.1504 parameter: [18.0279617   1.10510777 -1.44622541
-0.08182168]
Round773-------squared error: 4.1488 parameter: [18.02981189  1.10478995 -1.44687736
-0.08220045]
Round774-------squared error: 4.1471 parameter: [18.03165283  1.10447214 -1.44752821
-0.082578  ]
Round775-------squared error: 4.1455 parameter: [18.03348457  1.10415434 -1.44817796
-0.08295431]
Round776-------squared error: 4.1439 parameter: [18.03530715  1.10383654 -1.44882661
-0.0833294 ]
Round777-------squared error: 4.1424 parameter: [18.03712061  1.10351875 -1.44947415
-0.08370326]
Round778-------squared error: 4.1408 parameter: [18.03892501  1.10320097 -1.45012061
-0.08407591]
Round779-------squared error: 4.1393 parameter: [18.04072038  1.1028832  -1.45076596
-0.08444734]
Round780-------squared error: 4.1377 parameter: [18.04250678  1.10256545 -1.45141023
-0.08481757]
Round781-------squared error: 4.1362 parameter: [18.04428425  1.1022477  -1.45205341
-0.08518658]
Round782-------squared error: 4.1347 parameter: [18.04605282  1.10192997 -1.45269551
-0.08555439]
Round783-------squared error: 4.1332 parameter: [18.04781256  1.10161225 -1.45333652
-0.085921  ]
Round784-------squared error: 4.1317 parameter: [18.0495635   1.10129455 -1.45397645
-0.08628641]
Round785-------squared error: 4.1303 parameter: [18.05130568  1.10097687 -1.4546153
-0.08665063]
Round786-------squared error: 4.1288 parameter: [18.05303915  1.10065921 -1.45525308
-0.08701365]
Round787-------squared error: 4.1274 parameter: [18.05476396  1.10034156 -1.45588979
-0.08737549]
Round788-------squared error: 4.1259 parameter: [18.05648014  1.10002393 -1.45652542
-0.08773615]
Round789-------squared error: 4.1245 parameter: [18.05818774  1.09970632 -1.45715999
-0.08809563]
Round790-------squared error: 4.1231 parameter: [18.0598868   1.09938874 -1.45779349
-0.08845393]
Round791-------squared error: 4.1217 parameter: [18.06157736  1.09907118 -1.45842593
-0.08881106]
Round792-------squared error: 4.1203 parameter: [18.06325948  1.09875364 -1.45905731
-0.08916701]
Round793-------squared error: 4.1190 parameter: [18.06493318  1.09843613 -1.45968764
-0.0895218 ]
Round794-------squared error: 4.1176 parameter: [18.06659851  1.09811864 -1.4603169
-0.08987543]
Round795-------squared error: 4.1163 parameter: [18.06825552  1.09780117 -1.46094512
-0.0902279 ]
Round796-------squared error: 4.1149 parameter: [18.06990424  1.09748374 -1.46157228
-0.09057922]
Round797-------squared error: 4.1136 parameter: [18.07154472  1.09716633 -1.4621984
-0.09092938]
Round798-------squared error: 4.1123 parameter: [18.073177    1.09684896 -1.46282347
-0.09127839]
Round799-------squared error: 4.1110 parameter: [18.07480111  1.09653161 -1.4634475
-0.09162626]
Round800-------squared error: 4.1097 parameter: [18.07641711  1.09621429 -1.46407049
-0.09197298]
```

```
Round801-------squared error: 4.1085 parameter: [18.07802502  1.09589701 -1.46469244
-0.09231857]
Round802-------squared error: 4.1072 parameter: [18.0796249   1.09557976 -1.46531336
-0.09266301]
Round803-------squared error: 4.1059 parameter: [18.08121677  1.09526254 -1.46593324
-0.09300633]
Round804-------squared error: 4.1047 parameter: [18.08280069  1.09494536 -1.46655209
-0.09334852]
Round805-------squared error: 4.1035 parameter: [18.08437668  1.09462821 -1.46716991
-0.09368958]
Round806-------squared error: 4.1023 parameter: [18.0859448   1.0943111  -1.46778671
-0.09402952]
Round807-------squared error: 4.1010 parameter: [18.08750508  1.09399403 -1.46840248
-0.09436834]
Round808-------squared error: 4.0998 parameter: [18.08905755  1.09367699 -1.46901723
-0.09470604]
Round809-------squared error: 4.0987 parameter: [18.09060226  1.09336    -1.46963097
-0.09504263]
Round810-------squared error: 4.0975 parameter: [18.09213925  1.09304304 -1.47024368
-0.09537812]
Round811-------squared error: 4.0963 parameter: [18.09366856  1.09272613 -1.47085539
-0.09571249]
Round812-------squared error: 4.0952 parameter: [18.09519021  1.09240925 -1.47146608
-0.09604577]
Round813-------squared error: 4.0940 parameter: [18.09670426  1.09209242 -1.47207576
-0.09637794]
Round814-------squared error: 4.0929 parameter: [18.09821074  1.09177563 -1.47268443
-0.09670902]
Round815-------squared error: 4.0917 parameter: [18.09970969  1.09145889 -1.4732921
-0.097039  ]
Round816-------squared error: 4.0906 parameter: [18.10120114  1.09114219 -1.47389877
-0.0973679 ]
Round817-------squared error: 4.0895 parameter: [18.10268513  1.09082554 -1.47450443
-0.09769571]
Round818-------squared error: 4.0884 parameter: [18.10416171  1.09050893 -1.4751091
-0.09802243]
Round819-------squared error: 4.0873 parameter: [18.1056309   1.09019238 -1.47571277
-0.09834808]
Round820-------squared error: 4.0862 parameter: [18.10709275  1.08987587 -1.47631545
-0.09867264]
Round821-------squared error: 4.0852 parameter: [18.10854728  1.08955941 -1.47691714
-0.09899614]
Round822-------squared error: 4.0841 parameter: [18.10999454  1.08924299 -1.47751784
-0.09931856]
Round823-------squared error: 4.0831 parameter: [18.11143457  1.08892663 -1.47811755
-0.09963992]
Round824-------squared error: 4.0820 parameter: [18.1128674   1.08861033 -1.47871628
-0.09996021]
Round825-------squared error: 4.0810 parameter: [18.11429306  1.08829407 -1.47931402
-0.10027944]
Round826-------squared error: 4.0800 parameter: [18.1157116   1.08797787 -1.47991079
-0.10059761]
Round827-------squared error: 4.0789 parameter: [18.11712304  1.08766172 -1.48050658
-0.10091473]
Round828-------squared error: 4.0779 parameter: [18.11852742  1.08734563 -1.48110139
-0.10123079]
Round829-------squared error: 4.0769 parameter: [18.11992479  1.08702959 -1.48169523
-0.10154581]
Round830-------squared error: 4.0759 parameter: [18.12131516  1.08671361 -1.4822881
-0.10185978]
Round831-------squared error: 4.0750 parameter: [18.12269859  1.08639768 -1.48288
-0.10217271]
Round832-------squared error: 4.0740 parameter: [18.12407509  1.08608181 -1.48347093
-0.1024846 ]
```

```
Round833-------squared error: 4.0730 parameter: [18.12544472  1.08576601 -1.4840609
-0.10279545]
Round834-------squared error: 4.0721 parameter: [18.12680749  1.08545026 -1.4846499
-0.10310527]
Round835-------squared error: 4.0711 parameter: [18.12816346  1.08513457 -1.48523795
-0.10341406]
Round836-------squared error: 4.0702 parameter: [18.12951264  1.08481894 -1.48582504
-0.10372182]
Round837-------squared error: 4.0692 parameter: [18.13085508  1.08450337 -1.48641117
-0.10402856]
Round838-------squared error: 4.0683 parameter: [18.1321908   1.08418787 -1.48699635
-0.10433428]
Round839-------squared error: 4.0674 parameter: [18.13351985  1.08387243 -1.48758058
-0.10463898]
Round840-------squared error: 4.0665 parameter: [18.13484225  1.08355705 -1.48816385
-0.10494266]
Round841-------squared error: 4.0656 parameter: [18.13615804  1.08324174 -1.48874618
-0.10524534]
Round842-------squared error: 4.0647 parameter: [18.13746725  1.08292649 -1.48932757
-0.105547  ]
Round843-------squared error: 4.0638 parameter: [18.13876991  1.08261131 -1.48990801
-0.10584766]
Round844-------squared error: 4.0629 parameter: [18.14006606  1.0822962  -1.49048751
-0.10614731]
Round845-------squared error: 4.0620 parameter: [18.14135573  1.08198115 -1.49106608
-0.10644597]
Round846-------squared error: 4.0612 parameter: [18.14263895  1.08166617 -1.4916437
-0.10674363]
Round847-------squared error: 4.0603 parameter: [18.14391576  1.08135126 -1.49222039
-0.10704029]
Round848-------squared error: 4.0595 parameter: [18.14518618  1.08103642 -1.49279615
-0.10733597]
Round849-------squared error: 4.0586 parameter: [18.14645025  1.08072165 -1.49337098
-0.10763065]
Round850-------squared error: 4.0578 parameter: [18.147708    1.08040695 -1.49394488
-0.10792435]
Round851-------squared error: 4.0570 parameter: [18.14895946  1.08009232 -1.49451786
-0.10821707]
Round852-------squared error: 4.0561 parameter: [18.15020466  1.07977777 -1.49508991
-0.10850881]
Round853-------squared error: 4.0553 parameter: [18.15144364  1.07946329 -1.49566104
-0.10879957]
Round854-------squared error: 4.0545 parameter: [18.15267642  1.07914888 -1.49623124
-0.10908936]
Round855-------squared error: 4.0537 parameter: [18.15390304  1.07883454 -1.49680053
-0.10937818]
Round856-------squared error: 4.0529 parameter: [18.15512352  1.07852029 -1.49736891
-0.10966603]
Round857-------squared error: 4.0521 parameter: [18.1563379   1.0782061  -1.49793637
-0.10995292]
Round858-------squared error: 4.0513 parameter: [18.15754621  1.077892   -1.49850292
-0.11023884]
Round859-------squared error: 4.0506 parameter: [18.15874848  1.07757797 -1.49906855
-0.11052381]
Round860-------squared error: 4.0498 parameter: [18.15994474  1.07726401 -1.49963328
-0.11080782]
Round861-------squared error: 4.0490 parameter: [18.16113502  1.07695014 -1.50019711
-0.11109087]
Round862-------squared error: 4.0483 parameter: [18.16231934  1.07663635 -1.50076003
-0.11137298]
Round863-------squared error: 4.0475 parameter: [18.16349774  1.07632263 -1.50132205
-0.11165414]
Round864-------squared error: 4.0468 parameter: [18.16467026  1.076009   -1.50188317
-0.11193435]
```

```
Round865-------squared error: 4.0460 parameter: [18.1658369   1.07569544 -1.50244339
-0.11221362]
Round866-------squared error: 4.0453 parameter: [18.16699772  1.07538197 -1.50300271
-0.11249195]
Round867-------squared error: 4.0446 parameter: [18.16815273  1.07506858 -1.50356114
-0.11276935]
Round868-------squared error: 4.0439 parameter: [18.16930197  1.07475528 -1.50411868
-0.11304581]
Round869-------squared error: 4.0431 parameter: [18.17044546  1.07444205 -1.50467533
-0.11332135]
Round870-------squared error: 4.0424 parameter: [18.17158323  1.07412891 -1.50523109
-0.11359595]
Round871-------squared error: 4.0417 parameter: [18.17271531  1.07381586 -1.50578597
-0.11386963]
Round872-------squared error: 4.0410 parameter: [18.17384174  1.07350289 -1.50633996
-0.11414239]
Round873-------squared error: 4.0403 parameter: [18.17496253  1.07319001 -1.50689306
-0.11441422]
Round874-------squared error: 4.0396 parameter: [18.17607772  1.07287721 -1.50744529
-0.11468514]
Round875-------squared error: 4.0390 parameter: [18.17718733  1.0725645  -1.50799664
-0.11495515]
Round876-------squared error: 4.0383 parameter: [18.17829139  1.07225188 -1.50854711
-0.11522425]
Round877-------squared error: 4.0376 parameter: [18.17938993  1.07193934 -1.50909671
-0.11549243]
Round878-------squared error: 4.0370 parameter: [18.18048298  1.0716269  -1.50964544
-0.11575971]
Round879-------squared error: 4.0363 parameter: [18.18157057  1.07131455 -1.51019329
-0.11602609]
Round880-------squared error: 4.0356 parameter: [18.18265272  1.07100228 -1.51074028
-0.11629157]
Round881-------squared error: 4.0350 parameter: [18.18372945  1.07069011 -1.5112864
-0.11655615]
Round882-------squared error: 4.0344 parameter: [18.18480081  1.07037802 -1.51183165
-0.11681984]
Round883-------squared error: 4.0337 parameter: [18.1858668   1.07006603 -1.51237604
-0.11708263]
Round884-------squared error: 4.0331 parameter: [18.18692747  1.06975414 -1.51291957
-0.11734453]
Round885-------squared error: 4.0325 parameter: [18.18798283  1.06944233 -1.51346224
-0.11760555]
Round886-------squared error: 4.0318 parameter: [18.18903292  1.06913062 -1.51400406
-0.11786568]
Round887-------squared error: 4.0312 parameter: [18.19007775  1.068819   -1.51454501
-0.11812493]
Round888-------squared error: 4.0306 parameter: [18.19111736  1.06850748 -1.51508511
-0.1183833 ]
Round889-------squared error: 4.0300 parameter: [18.19215178  1.06819605 -1.51562437
-0.1186408 ]
Round890-------squared error: 4.0294 parameter: [18.19318102  1.06788472 -1.51616277
-0.11889742]
Round891-------squared error: 4.0288 parameter: [18.19420511  1.06757349 -1.51670032
-0.11915317]
Round892-------squared error: 4.0282 parameter: [18.19522409  1.06726235 -1.51723702
-0.11940805]
Round893-------squared error: 4.0276 parameter: [18.19623797  1.06695131 -1.51777289
-0.11966207]
Round894-------squared error: 4.0270 parameter: [18.19724678  1.06664037 -1.5183079
-0.11991522]
Round895-------squared error: 4.0264 parameter: [18.19825054  1.06632952 -1.51884208
-0.12016751]
Round896-------squared error: 4.0259 parameter: [18.19924929  1.06601878 -1.51937542
-0.12041895]
```

```
Round897-------squared error: 4.0253 parameter: [18.20024304  1.06570813 -1.51990792
-0.12066953]
Round898-------squared error: 4.0247 parameter: [18.20123183  1.06539759 -1.52043958
-0.12091925]
Round899-------squared error: 4.0242 parameter: [18.20221567  1.06508715 -1.52097041
-0.12116813]
Round900-------squared error: 4.0236 parameter: [18.20319459  1.06477681 -1.52150041
-0.12141616]
Round901-------squared error: 4.0231 parameter: [18.20416862  1.06446657 -1.52202958
-0.12166334]
Round902-------squared error: 4.0225 parameter: [18.20513777  1.06415643 -1.52255792
-0.12190968]
Round903-------squared error: 4.0220 parameter: [18.20610209  1.06384639 -1.52308544
-0.12215518]
Round904-------squared error: 4.0214 parameter: [18.20706158  1.06353646 -1.52361212
-0.12239985]
Round905-------squared error: 4.0209 parameter: [18.20801627  1.06322663 -1.52413799
-0.12264368]
Round906-------squared error: 4.0204 parameter: [18.20896619  1.06291691 -1.52466303
-0.12288667]
Round907-------squared error: 4.0198 parameter: [18.20991136  1.06260729 -1.52518726
-0.12312884]
Round908-------squared error: 4.0193 parameter: [18.2108518   1.06229778 -1.52571066
-0.12337018]
Round909-------squared error: 4.0188 parameter: [18.21178754  1.06198837 -1.52623325
-0.12361069]
Round910-------squared error: 4.0183 parameter: [18.2127186   1.06167907 -1.52675503
-0.12385038]
Round911-------squared error: 4.0178 parameter: [18.21364501  1.06136988 -1.52727599
-0.12408925]
Round912-------squared error: 4.0172 parameter: [18.21456678  1.06106079 -1.52779615
-0.12432731]
Round913-------squared error: 4.0167 parameter: [18.21548395  1.06075182 -1.52831549
-0.12456455]
Round914-------squared error: 4.0162 parameter: [18.21639653  1.06044295 -1.52883402
-0.12480097]
Round915-------squared error: 4.0157 parameter: [18.21730455  1.06013419 -1.52935175
-0.12503659]
Round916-------squared error: 4.0152 parameter: [18.21820802  1.05982554 -1.52986868
-0.1252714 ]
Round917-------squared error: 4.0148 parameter: [18.21910698  1.059517   -1.5303848
-0.1255054 ]
Round918-------squared error: 4.0143 parameter: [18.22000145  1.05920857 -1.53090013
-0.12573861]
Round919-------squared error: 4.0138 parameter: [18.22089144  1.05890025 -1.53141465
-0.12597101]
Round920-------squared error: 4.0133 parameter: [18.22177699  1.05859204 -1.53192838
-0.12620261]
Round921-------squared error: 4.0128 parameter: [18.2226581   1.05828394 -1.53244131
-0.12643342]
Round922-------squared error: 4.0124 parameter: [18.22353481  1.05797596 -1.53295344
-0.12666343]
Round923-------squared error: 4.0119 parameter: [18.22440714  1.05766809 -1.53346479
-0.12689266]
Round924-------squared error: 4.0114 parameter: [18.2252751   1.05736033 -1.53397534
-0.12712109]
Round925-------squared error: 4.0110 parameter: [18.22613872  1.05705268 -1.53448511
-0.12734874]
Round926-------squared error: 4.0105 parameter: [18.22699803  1.05674515 -1.53499409
-0.12757561]
Round927-------squared error: 4.0101 parameter: [18.22785304  1.05643774 -1.53550228
-0.1278017 ]
Round928-------squared error: 4.0096 parameter: [18.22870378  1.05613044 -1.53600969
-0.128027  ]
```

```
Round929-------squared error: 4.0092 parameter: [18.22955026  1.05582325 -1.53651631
-0.12825153]
Round930-------squared error: 4.0087 parameter: [18.23039251  1.05551618 -1.53702216
-0.12847529]
Round931-------squared error: 4.0083 parameter: [18.23123054  1.05520923 -1.53752722
-0.12869828]
Round932-------squared error: 4.0079 parameter: [18.23206439  1.0549024  -1.53803151
-0.12892049]
Round933-------squared error: 4.0074 parameter: [18.23289407  1.05459568 -1.53853503
-0.12914194]
Round934-------squared error: 4.0070 parameter: [18.2337196   1.05428908 -1.53903777
-0.12936263]
Round935-------squared error: 4.0066 parameter: [18.234541    1.05398259 -1.53953973
-0.12958255]
Round936-------squared error: 4.0061 parameter: [18.23535829  1.05367623 -1.54004093
-0.12980171]
Round937-------squared error: 4.0057 parameter: [18.2361715   1.05336999 -1.54054136
-0.13002012]
Round938-------squared error: 4.0053 parameter: [18.23698065  1.05306386 -1.54104102
-0.13023777]
Round939-------squared error: 4.0049 parameter: [18.23778574  1.05275786 -1.54153991
-0.13045466]
Round940-------squared error: 4.0045 parameter: [18.23858681  1.05245197 -1.54203804
-0.13067081]
Round941-------squared error: 4.0041 parameter: [18.23938388  1.05214621 -1.54253541
-0.13088621]
Round942-------squared error: 4.0037 parameter: [18.24017696  1.05184056 -1.54303201
-0.13110086]
Round943-------squared error: 4.0033 parameter: [18.24096608  1.05153504 -1.54352786
-0.13131476]
Round944-------squared error: 4.0029 parameter: [18.24175125  1.05122964 -1.54402294
-0.13152793]
Round945-------squared error: 4.0025 parameter: [18.24253249  1.05092437 -1.54451728
-0.13174036]
Round946-------squared error: 4.0021 parameter: [18.24330983  1.05061921 -1.54501085
-0.13195205]
Round947-------squared error: 4.0017 parameter: [18.24408328  1.05031418 -1.54550367
-0.132163  ]
Round948-------squared error: 4.0013 parameter: [18.24485286  1.05000928 -1.54599575
-0.13237322]
Round949-------squared error: 4.0009 parameter: [18.2456186   1.04970449 -1.54648707
-0.13258271]
Round950-------squared error: 4.0005 parameter: [18.2463805   1.04939983 -1.54697764
-0.13279148]
Round951-------squared error: 4.0001 parameter: [18.2471386   1.0490953  -1.54746746
-0.13299951]
Round952-------squared error: 3.9998 parameter: [18.24789291  1.04879089 -1.54795654
-0.13320683]
Round953-------squared error: 3.9994 parameter: [18.24864344  1.04848661 -1.54844488
-0.13341342]
Round954-------squared error: 3.9990 parameter: [18.24939023  1.04818245 -1.54893247
-0.13361929]
Round955-------squared error: 3.9987 parameter: [18.25013328  1.04787842 -1.54941933
-0.13382445]
Round956-------squared error: 3.9983 parameter: [18.25087261  1.04757452 -1.54990544
-0.13402889]
Round957-------squared error: 3.9979 parameter: [18.25160825  1.04727075 -1.55039081
-0.13423262]
Round958-------squared error: 3.9976 parameter: [18.2523402   1.0469671  -1.55087545
-0.13443563]
Round959-------squared error: 3.9972 parameter: [18.2530685   1.04666358 -1.55135936
-0.13463794]
Round960-------squared error: 3.9969 parameter: [18.25379316  1.04636019 -1.55184253
-0.13483954]
```

```
Round961-------squared error: 3.9965 parameter: [18.2545142   1.04605692 -1.55232497
-0.13504044]
Round962-------squared error: 3.9961 parameter: [18.25523162  1.04575379 -1.55280668
-0.13524064]
Round963-------squared error: 3.9958 parameter: [18.25594547  1.04545079 -1.55328766
-0.13544014]
Round964-------squared error: 3.9955 parameter: [18.25665574  1.04514791 -1.55376791
-0.13563894]
Round965-------squared error: 3.9951 parameter: [18.25736246  1.04484517 -1.55424744
-0.13583704]
Round966-------squared error: 3.9948 parameter: [18.25806565  1.04454256 -1.55472624
-0.13603445]
Round967-------squared error: 3.9944 parameter: [18.25876532  1.04424007 -1.55520432
-0.13623117]
Round968-------squared error: 3.9941 parameter: [18.25946149  1.04393772 -1.55568168
-0.1364272 ]
Round969-------squared error: 3.9938 parameter: [18.26015419  1.0436355  -1.55615832
-0.13662254]
Round970-------squared error: 3.9934 parameter: [18.26084341  1.04333342 -1.55663424
-0.1368172 ]
Round971-------squared error: 3.9931 parameter: [18.2615292   1.04303146 -1.55710944
-0.13701118]
Round972-------squared error: 3.9928 parameter: [18.26221155  1.04272964 -1.55758393
-0.13720447]
Round973-------squared error: 3.9924 parameter: [18.26289049  1.04242795 -1.5580577
-0.13739709]
Round974-------squared error: 3.9921 parameter: [18.26356604  1.0421264  -1.55853077
-0.13758902]
Round975-------squared error: 3.9918 parameter: [18.26423821  1.04182498 -1.55900312
-0.13778029]
Round976-------squared error: 3.9915 parameter: [18.26490702  1.04152369 -1.55947476
-0.13797088]
Round977-------squared error: 3.9912 parameter: [18.26557249  1.04122254 -1.55994569
-0.1381608 ]
Round978-------squared error: 3.9909 parameter: [18.26623462  1.04092152 -1.56041592
-0.13835006]
Round979-------squared error: 3.9905 parameter: [18.26689345  1.04062064 -1.56088544
-0.13853864]
Round980-------squared error: 3.9902 parameter: [18.26754898  1.0403199  -1.56135426
-0.13872657]
Round981-------squared error: 3.9899 parameter: [18.26820124  1.04001929 -1.56182237
-0.13891383]
Round982-------squared error: 3.9896 parameter: [18.26885023  1.03971881 -1.56228979
-0.13910043]
Round983-------squared error: 3.9893 parameter: [18.26949598  1.03941848 -1.5627565
-0.13928637]
Round984-------squared error: 3.9890 parameter: [18.2701385   1.03911828 -1.56322252
-0.13947166]
Round985-------squared error: 3.9887 parameter: [18.27077781  1.03881821 -1.56368784
-0.13965629]
Round986-------squared error: 3.9884 parameter: [18.27141392  1.03851829 -1.56415246
-0.13984027]
Round987-------squared error: 3.9881 parameter: [18.27204685  1.0382185  -1.56461639
-0.1400236 ]
Round988-------squared error: 3.9878 parameter: [18.27267661  1.03791885 -1.56507963
-0.14020628]
Round989-------squared error: 3.9875 parameter: [18.27330323  1.03761934 -1.56554218
-0.14038832]
Round990-------squared error: 3.9873 parameter: [18.27392672  1.03731997 -1.56600404
-0.14056971]
Round991-------squared error: 3.9870 parameter: [18.27454708  1.03702074 -1.56646521
-0.14075046]
Round992-------squared error: 3.9867 parameter: [18.27516435  1.03672165 -1.56692569
-0.14093057]
```

```
Round993-------squared error: 3.9864 parameter: [18.27577852  1.0364227  -1.56738549
-0.14111004]
Round994-------squared error: 3.9861 parameter: [18.27638963  1.03612388 -1.5678446
-0.14128888]
Round995-------squared error: 3.9858 parameter: [18.27699768  1.03582521 -1.56830303
-0.14146708]
Round996-------squared error: 3.9856 parameter: [18.2776027   1.03552668 -1.56876078
-0.14164464]
Round997-------squared error: 3.9853 parameter: [18.27820468  1.03522829 -1.56921785
-0.14182158]
Round998-------squared error: 3.9850 parameter: [18.27880366  1.03493005 -1.56967424
-0.14199789]
Round999-------squared error: 3.9847 parameter: [18.27939964  1.03463194 -1.57012996
-0.14217357]
Round1000-------squared error: 3.9845 parameter: [18.27999264  1.03433397 -1.570585
-0.14234863]
Round1001-------squared error: 3.9842 parameter: [18.28058268  1.03403615 -1.5710393
6 -0.14252307]
Round1002-------squared error: 3.9839 parameter: [18.28116977  1.03373847 -1.5714930
5 -0.14269688]
Round1003-------squared error: 3.9837 parameter: [18.28175392  1.03344094 -1.5719460
7 -0.14287008]
Round1004-------squared error: 3.9834 parameter: [18.28233515  1.03314355 -1.5723984
2 -0.14304266]
Round1005-------squared error: 3.9831 parameter: [18.28291347  1.0328463  -1.5728501
-0.14321462]
Round1006-------squared error: 3.9829 parameter: [18.2834889   1.03254919 -1.5733011
1 -0.14338598]
Round1007-------squared error: 3.9826 parameter: [18.28406146  1.03225223 -1.5737514
5 -0.14355671]
Round1008-------squared error: 3.9824 parameter: [18.28463115  1.03195541 -1.5742011
3 -0.14372685]
Round1009-------squared error: 3.9821 parameter: [18.285198    1.03165874 -1.5746501
5 -0.14389637]
Round1010-------squared error: 3.9818 parameter: [18.28576201  1.03136222 -1.5750985
-0.14406529]
Round1011-------squared error: 3.9816 parameter: [18.2863232   1.03106583 -1.5755462
-0.1442336 ]
Round1012-------squared error: 3.9813 parameter: [18.28688158  1.0307696  -1.5759932
3 -0.14440131]
Round1013-------squared error: 3.9811 parameter: [18.28743717  1.03047351 -1.5764396
-0.14456842]
Round1014-------squared error: 3.9808 parameter: [18.28798999  1.03017756 -1.5768853
2 -0.14473494]
Round1015-------squared error: 3.9806 parameter: [18.28854004  1.02988177 -1.5773303
8 -0.14490085]
Round1016-------squared error: 3.9804 parameter: [18.28908734  1.02958612 -1.5777747
9 -0.14506618]
Round1017-------squared error: 3.9801 parameter: [18.2896319   1.02929061 -1.5782185
4 -0.14523091]
Round1018-------squared error: 3.9799 parameter: [18.29017374  1.02899526 -1.5786616
5 -0.14539505]
Round1019-------squared error: 3.9796 parameter: [18.29071287  1.02870005 -1.5791041
-0.1455586 ]
Round1020-------squared error: 3.9794 parameter: [18.29124931  1.02840499 -1.5795459
-0.14572156]
Round1021-------squared error: 3.9792 parameter: [18.29178306  1.02811007 -1.5799870
6 -0.14588394]
Round1022-------squared error: 3.9789 parameter: [18.29231415  1.02781531 -1.5804275
6 -0.14604573]
Round1023-------squared error: 3.9787 parameter: [18.29284257  1.02752069 -1.5808674
3 -0.14620694]
Round1024-------squared error: 3.9785 parameter: [18.29336836  1.02722623 -1.5813066
4 -0.14636758]
```

```
Round1025-------squared error: 3.9782 parameter: [18.29389152  1.02693191 -1.5817452
2 -0.14652763]
Round1026-------squared error: 3.9780 parameter: [18.29441206  1.02663774 -1.5821831
5 -0.14668711]
Round1027-------squared error: 3.9778 parameter: [18.29493     1.02634372 -1.5826204
5 -0.14684601]
Round1028-------squared error: 3.9775 parameter: [18.29544535  1.02604986 -1.5830571
-0.14700434]
Round1029-------squared error: 3.9773 parameter: [18.29595813  1.02575614 -1.5834931
2 -0.1471621 ]
Round1030-------squared error: 3.9771 parameter: [18.29646833  1.02546257 -1.5839285
-0.14731929]
Round1031-------squared error: 3.9769 parameter: [18.29697599  1.02516915 -1.5843632
4 -0.14747591]
Round1032-------squared error: 3.9766 parameter: [18.29748111  1.02487589 -1.5847973
5 -0.14763197]
Round1033-------squared error: 3.9764 parameter: [18.29798371  1.02458277 -1.5852308
3 -0.14778746]
Round1034-------squared error: 3.9762 parameter: [18.29848379  1.02428981 -1.5856636
8 -0.14794239]
Round1035-------squared error: 3.9760 parameter: [18.29898137  1.023997   -1.5860958
9 -0.14809676]
Round1036-------squared error: 3.9758 parameter: [18.29947646  1.02370434 -1.5865274
8 -0.14825057]
Round1037-------squared error: 3.9756 parameter: [18.29996908  1.02341183 -1.5869584
4 -0.14840383]
Round1038-------squared error: 3.9753 parameter: [18.30045924  1.02311947 -1.5873887
7 -0.14855653]
Round1039-------squared error: 3.9751 parameter: [18.30094694  1.02282727 -1.5878184
8 -0.14870867]
Round1040-------squared error: 3.9749 parameter: [18.3014322   1.02253522 -1.5882475
7 -0.14886027]
Round1041-------squared error: 3.9747 parameter: [18.30191504  1.02224332 -1.5886760
3 -0.14901131]
Round1042-------squared error: 3.9745 parameter: [18.30239547  1.02195158 -1.5891038
7 -0.1491618 ]
Round1043-------squared error: 3.9743 parameter: [18.30287349  1.02165999 -1.5895310
8 -0.14931175]
Round1044-------squared error: 3.9741 parameter: [18.30334912  1.02136856 -1.5899576
8 -0.14946115]
Round1045-------squared error: 3.9739 parameter: [18.30382238  1.02107728 -1.5903836
7 -0.14961001]
Round1046-------squared error: 3.9737 parameter: [18.30429327  1.02078615 -1.5908090
3 -0.14975833]
Round1047-------squared error: 3.9735 parameter: [18.3047618   1.02049518 -1.5912337
8 -0.14990611]
Round1048-------squared error: 3.9733 parameter: [18.30522799  1.02020436 -1.5916579
1 -0.15005335]
Round1049-------squared error: 3.9731 parameter: [18.30569185  1.0199137  -1.5920814
4 -0.15020005]
Round1050-------squared error: 3.9729 parameter: [18.30615339  1.01962319 -1.5925043
5 -0.15034622]
Round1051-------squared error: 3.9727 parameter: [18.30661262  1.01933284 -1.5929266
4 -0.15049185]
Round1052-------squared error: 3.9725 parameter: [18.30706956  1.01904264 -1.5933483
3 -0.15063695]
Round1053-------squared error: 3.9723 parameter: [18.30752421  1.0187526  -1.5937694
2 -0.15078153]
Round1054-------squared error: 3.9721 parameter: [18.30797659  1.01846272 -1.5941898
9 -0.15092557]
Round1055-------squared error: 3.9719 parameter: [18.30842671  1.01817299 -1.5946097
6 -0.15106909]
Round1056-------squared error: 3.9717 parameter: [18.30887458  1.01788342 -1.5950290
2 -0.15121208]
```

```
Round1057-------squared error: 3.9715 parameter: [18.3093202   1.017594   -1.5954476
8 -0.15135455]
Round1058-------squared error: 3.9713 parameter: [18.3097636   1.01730475 -1.5958657
4 -0.15149649]
Round1059-------squared error: 3.9711 parameter: [18.31020478  1.01701565 -1.5962831
9 -0.15163792]
Round1060-------squared error: 3.9710 parameter: [18.31064376  1.0167267  -1.5967000
5 -0.15177883]
Round1061-------squared error: 3.9708 parameter: [18.31108054  1.01643792 -1.5971163
-0.15191922]
Round1062-------squared error: 3.9706 parameter: [18.31151514  1.01614929 -1.5975319
6 -0.15205909]
Round1063-------squared error: 3.9704 parameter: [18.31194756  1.01586082 -1.5979470
2 -0.15219846]
Round1064-------squared error: 3.9702 parameter: [18.31237783  1.01557251 -1.5983614
9 -0.1523373 ]
Round1065-------squared error: 3.9700 parameter: [18.31280594  1.01528436 -1.5987753
6 -0.15247564]
Round1066-------squared error: 3.9699 parameter: [18.31323191  1.01499637 -1.5991886
4 -0.15261347]
Round1067-------squared error: 3.9697 parameter: [18.31365575  1.01470853 -1.5996013
3 -0.1527508 ]
Round1068-------squared error: 3.9695 parameter: [18.31407747  1.01442086 -1.6000134
2 -0.15288761]
Round1069-------squared error: 3.9693 parameter: [18.31449708  1.01413334 -1.6004249
3 -0.15302392]
Round1070-------squared error: 3.9691 parameter: [18.3149146   1.01384598 -1.6008358
5 -0.15315973]
Round1071-------squared error: 3.9690 parameter: [18.31533002  1.01355879 -1.6012461
8 -0.15329504]
Round1072-------squared error: 3.9688 parameter: [18.31574337  1.01327175 -1.6016559
2 -0.15342985]
Round1073-------squared error: 3.9686 parameter: [18.31615466  1.01298487 -1.6020650
8 -0.15356416]
Round1074-------squared error: 3.9684 parameter: [18.31656388  1.01269815 -1.6024736
6 -0.15369798]
Round1075-------squared error: 3.9683 parameter: [18.31697106  1.0124116  -1.6028816
5 -0.15383129]
Round1076-------squared error: 3.9681 parameter: [18.31737621  1.0121252  -1.6032890
6 -0.15396412]
Round1077-------squared error: 3.9679 parameter: [18.31777933  1.01183897 -1.6036958
9 -0.15409645]
Round1078-------squared error: 3.9678 parameter: [18.31818043  1.01155289 -1.6041021
4 -0.1542283 ]
Round1079-------squared error: 3.9676 parameter: [18.31857953  1.01126698 -1.6045078
1 -0.15435965]
Round1080-------squared error: 3.9674 parameter: [18.31897663  1.01098123 -1.6049129
-0.15449052]
Round1081-------squared error: 3.9673 parameter: [18.31937175  1.01069564 -1.6053174
2 -0.1546209 ]
Round1082-------squared error: 3.9671 parameter: [18.31976489  1.01041021 -1.6057213
6 -0.1547508 ]
Round1083-------squared error: 3.9669 parameter: [18.32015606  1.01012495 -1.6061247
3 -0.15488021]
Round1084-------squared error: 3.9668 parameter: [18.32054528  1.00983984 -1.6065275
3 -0.15500915]
Round1085-------squared error: 3.9666 parameter: [18.32093256  1.0095549  -1.6069297
5 -0.1551376 ]
Round1086-------squared error: 3.9664 parameter: [18.32131789  1.00927012 -1.6073314
-0.15526558]
Round1087-------squared error: 3.9663 parameter: [18.3217013   1.00898551 -1.6077324
9 -0.15539308]
Round1088-------squared error: 3.9661 parameter: [18.3220828   1.00870105 -1.608133
-0.1555201 ]
```

```
Round1089-------squared error: 3.9659 parameter: [18.32246238  1.00841676 -1.6085329
5 -0.15564665]
Round1090-------squared error: 3.9658 parameter: [18.32284007  1.00813263 -1.6089323
3 -0.15577273]
Round1091-------squared error: 3.9656 parameter: [18.32321587  1.00784867 -1.6093311
4 -0.15589834]
Round1092-------squared error: 3.9655 parameter: [18.32358979  1.00756487 -1.6097294
-0.15602347]
Round1093-------squared error: 3.9653 parameter: [18.32396184  1.00728123 -1.6101270
8 -0.15614814]
Round1094-------squared error: 3.9652 parameter: [18.32433203  1.00699776 -1.6105242
1 -0.15627235]
Round1095-------squared error: 3.9650 parameter: [18.32470037  1.00671445 -1.6109207
7 -0.15639609]
Round1096-------squared error: 3.9648 parameter: [18.32506687  1.00643131 -1.6113167
8 -0.15651936]
Round1097-------squared error: 3.9647 parameter: [18.32543154  1.00614833 -1.6117122
3 -0.15664217]
Round1098-------squared error: 3.9645 parameter: [18.32579438  1.00586551 -1.6121071
1 -0.15676453]
Round1099-------squared error: 3.9644 parameter: [18.32615541  1.00558286 -1.6125014
5 -0.15688642]
Round1100-------squared error: 3.9642 parameter: [18.32651463  1.00530037 -1.6128952
2 -0.15700786]
Round1101-------squared error: 3.9641 parameter: [18.32687206  1.00501805 -1.6132884
4 -0.15712884]
Round1102-------squared error: 3.9639 parameter: [18.3272277   1.0047359  -1.6136811
1 -0.15724936]
Round1103-------squared error: 3.9638 parameter: [18.32758156  1.00445391 -1.6140732
3 -0.15736943]
Round1104-------squared error: 3.9636 parameter: [18.32793365  1.00417208 -1.6144647
9 -0.15748905]
Round1105-------squared error: 3.9635 parameter: [18.32828398  1.00389042 -1.6148558
-0.15760822]
Round1106-------squared error: 3.9633 parameter: [18.32863256  1.00360893 -1.6152462
7 -0.15772694]
Round1107-------squared error: 3.9632 parameter: [18.3289794   1.0033276  -1.6156361
8 -0.15784521]
Round1108-------squared error: 3.9631 parameter: [18.3293245   1.00304644 -1.6160255
5 -0.15796304]
Round1109-------squared error: 3.9629 parameter: [18.32966788  1.00276545 -1.6164143
7 -0.15808042]
Round1110-------squared error: 3.9628 parameter: [18.33000954  1.00248462 -1.6168026
5 -0.15819735]
Round1111-------squared error: 3.9626 parameter: [18.33034949  1.00220396 -1.6171903
8 -0.15831385]
Round1112-------squared error: 3.9625 parameter: [18.33068775  1.00192346 -1.6175775
7 -0.1584299 ]
Round1113-------squared error: 3.9623 parameter: [18.33102431  1.00164313 -1.6179642
2 -0.15854552]
Round1114-------squared error: 3.9622 parameter: [18.33135919  1.00136297 -1.6183503
2 -0.15866069]
Round1115-------squared error: 3.9621 parameter: [18.33169239  1.00108298 -1.6187358
9 -0.15877543]
Round1116-------squared error: 3.9619 parameter: [18.33202393  1.00080315 -1.6191209
2 -0.15888974]
Round1117-------squared error: 3.9618 parameter: [18.33235381  1.00052349 -1.6195054
1 -0.15900361]
Round1118-------squared error: 3.9616 parameter: [18.33268204  1.000244   -1.6198893
6 -0.15911705]
Round1119-------squared error: 3.9615 parameter: [18.33300863  0.99996467 -1.6202727
7 -0.15923005]
Round1120-------squared error: 3.9614 parameter: [18.33333359  0.99968552 -1.6206556
5 -0.15934263]
```

```
Round1121-------squared error: 3.9612 parameter: [18.33365692  0.99940653 -1.621038
-0.15945478]
Round1122-------squared error: 3.9611 parameter: [18.33397863  0.99912771 -1.6214198
1 -0.1595665 ]
Round1123-------squared error: 3.9610 parameter: [18.33429874  0.99884906 -1.6218010
9 -0.1596778 ]
Round1124-------squared error: 3.9608 parameter: [18.33461725  0.99857057 -1.6221818
4 -0.15978867]
Round1125-------squared error: 3.9607 parameter: [18.33493416  0.99829226 -1.6225620
6 -0.15989912]
Round1126-------squared error: 3.9606 parameter: [18.33524949  0.99801411 -1.6229417
5 -0.16000914]
Round1127-------squared error: 3.9604 parameter: [18.33556324  0.99773614 -1.6233209
2 -0.16011875]
Round1128-------squared error: 3.9603 parameter: [18.33587543  0.99745833 -1.6236995
5 -0.16022794]
Round1129-------squared error: 3.9602 parameter: [18.33618605  0.99718069 -1.6240776
6 -0.16033671]
Round1130-------squared error: 3.9600 parameter: [18.33649512  0.99690322 -1.6244552
5 -0.16044506]
Round1131-------squared error: 3.9599 parameter: [18.33680264  0.99662592 -1.6248323
1 -0.160553  ]
Round1132-------squared error: 3.9598 parameter: [18.33710863  0.99634879 -1.6252088
5 -0.16066052]
Round1133-------squared error: 3.9596 parameter: [18.33741309  0.99607182 -1.6255848
6 -0.16076763]
Round1134-------squared error: 3.9595 parameter: [18.33771602  0.99579503 -1.6259603
5 -0.16087433]
Round1135-------squared error: 3.9594 parameter: [18.33801744  0.99551841 -1.6263353
3 -0.16098062]
Round1136-------squared error: 3.9593 parameter: [18.33831735  0.99524196 -1.6267097
8 -0.1610865 ]
Round1137-------squared error: 3.9591 parameter: [18.33861577  0.99496568 -1.6270837
2 -0.16119198]
Round1138-------squared error: 3.9590 parameter: [18.33891269  0.99468956 -1.6274571
4 -0.16129704]
Round1139-------squared error: 3.9589 parameter: [18.33920813  0.99441362 -1.6278300
4 -0.16140171]
Round1140-------squared error: 3.9588 parameter: [18.33950208  0.99413785 -1.6282024
3 -0.16150596]
Round1141-------squared error: 3.9586 parameter: [18.33979457  0.99386225 -1.6285743
-0.16160982]
Round1142-------squared error: 3.9585 parameter: [18.3400856   0.99358682 -1.6289456
6 -0.16171328]
Round1143-------squared error: 3.9584 parameter: [18.34037517  0.99331156 -1.6293165
-0.16181633]
Round1144-------squared error: 3.9583 parameter: [18.3406633   0.99303647 -1.6296868
4 -0.16191899]
Round1145-------squared error: 3.9581 parameter: [18.34094998  0.99276156 -1.6300566
6 -0.16202125]
Round1146-------squared error: 3.9580 parameter: [18.34123523  0.99248681 -1.6304259
8 -0.16212312]
Round1147-------squared error: 3.9579 parameter: [18.34151905  0.99221224 -1.6307947
8 -0.16222459]
Round1148-------squared error: 3.9578 parameter: [18.34180146  0.99193783 -1.6311630
8 -0.16232566]
Round1149-------squared error: 3.9577 parameter: [18.34208245  0.9916636  -1.6315308
7 -0.16242635]
Round1150-------squared error: 3.9575 parameter: [18.34236204  0.99138954 -1.6318981
6 -0.16252664]
Round1151-------squared error: 3.9574 parameter: [18.34264023  0.99111565 -1.6322649
4 -0.16262654]
Round1152-------squared error: 3.9573 parameter: [18.34291703  0.99084193 -1.6326312
1 -0.16272606]
```

```
Round1153-------squared error: 3.9572 parameter: [18.34319244  0.99056839 -1.6329969
9 -0.16282518]
Round1154-------squared error: 3.9571 parameter: [18.34346648  0.99029502 -1.6333622
6 -0.16292392]
Round1155-------squared error: 3.9570 parameter: [18.34373915  0.99002182 -1.6337270
3 -0.16302228]
Round1156-------squared error: 3.9568 parameter: [18.34401045  0.98974879 -1.6340912
9 -0.16312025]
Round1157-------squared error: 3.9567 parameter: [18.3442804   0.98947593 -1.6344550
6 -0.16321784]
Round1158-------squared error: 3.9566 parameter: [18.344549    0.98920325 -1.6348183
4 -0.16331505]
Round1159-------squared error: 3.9565 parameter: [18.34481625  0.98893074 -1.6351811
1 -0.16341188]
Round1160-------squared error: 3.9564 parameter: [18.34508217  0.9886584  -1.6355433
8 -0.16350833]
Round1161-------squared error: 3.9563 parameter: [18.34534676  0.98838623 -1.6359051
7 -0.1636044 ]
Round1162-------squared error: 3.9562 parameter: [18.34561003  0.98811424 -1.6362664
5 -0.1637001 ]
Round1163-------squared error: 3.9560 parameter: [18.34587198  0.98784242 -1.6366272
4 -0.16379542]
Round1164-------squared error: 3.9559 parameter: [18.34613262  0.98757077 -1.6369875
4 -0.16389037]
Round1165-------squared error: 3.9558 parameter: [18.34639195  0.9872993  -1.6373473
5 -0.16398494]
Round1166-------squared error: 3.9557 parameter: [18.34664999  0.987028   -1.6377066
6 -0.16407914]
Round1167-------squared error: 3.9556 parameter: [18.34690675  0.98675687 -1.6380654
9 -0.16417298]
Round1168-------squared error: 3.9555 parameter: [18.34716221  0.98648592 -1.6384238
3 -0.16426644]
Round1169-------squared error: 3.9554 parameter: [18.3474164   0.98621514 -1.6387816
7 -0.16435953]
Round1170-------squared error: 3.9553 parameter: [18.34766932  0.98594453 -1.6391390
3 -0.16445226]
Round1171-------squared error: 3.9552 parameter: [18.34792097  0.9856741  -1.6394959
-0.16454462]
Round1172-------squared error: 3.9550 parameter: [18.34817137  0.98540384 -1.6398522
9 -0.16463662]
Round1173-------squared error: 3.9549 parameter: [18.34842051  0.98513375 -1.6402081
9 -0.16472825]
Round1174-------squared error: 3.9548 parameter: [18.34866841  0.98486384 -1.6405636
1 -0.16481952]
Round1175-------squared error: 3.9547 parameter: [18.34891507  0.9845941  -1.6409185
4 -0.16491043]
Round1176-------squared error: 3.9546 parameter: [18.34916049  0.98432454 -1.641273
-0.16500098]
Round1177-------squared error: 3.9545 parameter: [18.34940469  0.98405515 -1.6416269
7 -0.16509117]
Round1178-------squared error: 3.9544 parameter: [18.34964766  0.98378593 -1.6419804
6 -0.16518101]
Round1179-------squared error: 3.9543 parameter: [18.34988943  0.98351689 -1.6423334
7 -0.16527048]
Round1180-------squared error: 3.9542 parameter: [18.35012998  0.98324803 -1.642686
-0.1653596 ]
Round1181-------squared error: 3.9541 parameter: [18.35036933  0.98297933 -1.6430380
5 -0.16544837]
Round1182-------squared error: 3.9540 parameter: [18.35060748  0.98271082 -1.6433896
3 -0.16553678]
Round1183-------squared error: 3.9539 parameter: [18.35084444  0.98244248 -1.6437407
3 -0.16562484]
Round1184-------squared error: 3.9538 parameter: [18.35108022  0.98217431 -1.6440913
5 -0.16571255]
```

```
Round1185-------squared error: 3.9537 parameter: [18.35131482  0.98190631 -1.6444415
-0.16579991]
Round1186-------squared error: 3.9536 parameter: [18.35154825  0.9816385  -1.6447911
8 -0.16588693]
Round1187-------squared error: 3.9535 parameter: [18.35178051  0.98137085 -1.6451403
8 -0.16597359]
Round1188-------squared error: 3.9534 parameter: [18.3520116   0.98110339 -1.6454891
1 -0.16605991]
Round1189-------squared error: 3.9533 parameter: [18.35224155  0.98083609 -1.6458373
7 -0.16614588]
Round1190-------squared error: 3.9532 parameter: [18.35247034  0.98056898 -1.6461851
6 -0.1662315 ]
Round1191-------squared error: 3.9531 parameter: [18.35269799  0.98030204 -1.6465324
8 -0.16631679]
Round1192-------squared error: 3.9530 parameter: [18.3529245   0.98003527 -1.6468793
4 -0.16640173]
Round1193-------squared error: 3.9529 parameter: [18.35314987  0.97976868 -1.6472257
2 -0.16648633]
Round1194-------squared error: 3.9528 parameter: [18.35337412  0.97950226 -1.6475716
4 -0.16657059]
Round1195-------squared error: 3.9527 parameter: [18.35359725  0.97923602 -1.6479170
9 -0.16665451]
Round1196-------squared error: 3.9526 parameter: [18.35381927  0.97896996 -1.6482620
8 -0.1667381 ]
Round1197-------squared error: 3.9525 parameter: [18.35404017  0.97870407 -1.6486066
-0.16682135]
Round1198-------squared error: 3.9524 parameter: [18.35425997  0.97843836 -1.6489506
6 -0.16690426]
Round1199-------squared error: 3.9523 parameter: [18.35447867  0.97817282 -1.6492942
5 -0.16698683]
Round1200-------squared error: 3.9522 parameter: [18.35469628  0.97790746 -1.6496373
9 -0.16706908]
Round1201-------squared error: 3.9521 parameter: [18.3549128   0.97764227 -1.6499800
6 -0.16715099]
Round1202-------squared error: 3.9520 parameter: [18.35512823  0.97737726 -1.6503222
7 -0.16723257]
Round1203-------squared error: 3.9519 parameter: [18.35534259  0.97711243 -1.6506640
3 -0.16731382]
Round1204-------squared error: 3.9518 parameter: [18.35555588  0.97684778 -1.6510053
2 -0.16739474]
Round1205-------squared error: 3.9517 parameter: [18.3557681   0.9765833  -1.6513461
6 -0.16747533]
Round1206-------squared error: 3.9516 parameter: [18.35597926  0.97631899 -1.6516865
4 -0.16755559]
Round1207-------squared error: 3.9515 parameter: [18.35618936  0.97605486 -1.6520264
6 -0.16763553]
Round1208-------squared error: 3.9514 parameter: [18.35639841  0.97579091 -1.6523659
3 -0.16771514]
Round1209-------squared error: 3.9513 parameter: [18.35660642  0.97552714 -1.6527049
5 -0.16779443]
Round1210-------squared error: 3.9512 parameter: [18.35681339  0.97526354 -1.6530435
1 -0.1678734 ]
Round1211-------squared error: 3.9511 parameter: [18.35701932  0.97500012 -1.6533816
2 -0.16795204]
Round1212-------squared error: 3.9511 parameter: [18.35722423  0.97473687 -1.6537192
7 -0.16803036]
Round1213-------squared error: 3.9510 parameter: [18.35742811  0.97447381 -1.6540564
8 -0.16810837]
Round1214-------squared error: 3.9509 parameter: [18.35763097  0.97421091 -1.6543932
3 -0.16818605]
Round1215-------squared error: 3.9508 parameter: [18.35783281  0.9739482  -1.6547295
4 -0.16826342]
Round1216-------squared error: 3.9507 parameter: [18.35803365  0.97368566 -1.6550653
9 -0.16834047]
```

```
Round1217-------squared error: 3.9506 parameter: [18.35823348  0.9734233  -1.6554008
-0.1684172 ]
Round1218-------squared error: 3.9505 parameter: [18.35843231  0.97316112 -1.6557357
6 -0.16849362]
Round1219-------squared error: 3.9504 parameter: [18.35863015  0.97289911 -1.6560702
8 -0.16856972]
Round1220-------squared error: 3.9503 parameter: [18.358827    0.97263728 -1.6564043
5 -0.16864551]
Round1221-------squared error: 3.9502 parameter: [18.35902286  0.97237563 -1.6567379
7 -0.16872099]
Round1222-------squared error: 3.9501 parameter: [18.35921775  0.97211416 -1.6570711
5 -0.16879616]
Round1223-------squared error: 3.9501 parameter: [18.35941166  0.97185286 -1.6574038
9 -0.16887102]
Round1224-------squared error: 3.9500 parameter: [18.3596046   0.97159174 -1.6577361
8 -0.16894557]
Round1225-------squared error: 3.9499 parameter: [18.35979658  0.9713308  -1.6580680
3 -0.16901981]
Round1226-------squared error: 3.9498 parameter: [18.3599876   0.97107003 -1.6583994
5 -0.16909375]
Round1227-------squared error: 3.9497 parameter: [18.36017766  0.97080944 -1.6587304
2 -0.16916738]
Round1228-------squared error: 3.9496 parameter: [18.36036677  0.97054903 -1.6590609
5 -0.1692407 ]
Round1229-------squared error: 3.9495 parameter: [18.36055494  0.9702888  -1.6593910
4 -0.16931372]
Round1230-------squared error: 3.9494 parameter: [18.36074216  0.97002874 -1.6597207
-0.16938644]
Round1231-------squared error: 3.9494 parameter: [18.36092845  0.96976886 -1.6600499
2 -0.16945885]
Round1232-------squared error: 3.9493 parameter: [18.36111381  0.96950916 -1.6603787
-0.16953097]
Round1233-------squared error: 3.9492 parameter: [18.36129824  0.96924964 -1.6607070
5 -0.16960278]
Round1234-------squared error: 3.9491 parameter: [18.36148175  0.9689903  -1.6610349
6 -0.1696743 ]
Round1235-------squared error: 3.9490 parameter: [18.36166434  0.96873113 -1.6613624
4 -0.16974552]
Round1236-------squared error: 3.9489 parameter: [18.36184602  0.96847214 -1.6616894
9 -0.16981644]
Round1237-------squared error: 3.9488 parameter: [18.36202679  0.96821333 -1.6620161
-0.16988706]
Round1238-------squared error: 3.9488 parameter: [18.36220665  0.9679547  -1.6623422
8 -0.16995739]
Round1239-------squared error: 3.9487 parameter: [18.36238562  0.96769624 -1.6626680
3 -0.17002742]
Round1240-------squared error: 3.9486 parameter: [18.36256369  0.96743797 -1.6629933
5 -0.17009716]
Round1241-------squared error: 3.9485 parameter: [18.36274087  0.96717987 -1.6633182
5 -0.17016661]
Round1242-------squared error: 3.9484 parameter: [18.36291717  0.96692194 -1.6636427
1 -0.17023577]
Round1243-------squared error: 3.9483 parameter: [18.36309258  0.9666642  -1.6639667
4 -0.17030463]
Round1244-------squared error: 3.9483 parameter: [18.36326712  0.96640664 -1.6642903
5 -0.17037321]
Round1245-------squared error: 3.9482 parameter: [18.36344078  0.96614925 -1.6646135
3 -0.1704415 ]
Round1246-------squared error: 3.9481 parameter: [18.36361358  0.96589204 -1.6649362
9 -0.1705095 ]
Round1247-------squared error: 3.9480 parameter: [18.36378551  0.96563501 -1.6652586
2 -0.17057721]
Round1248-------squared error: 3.9479 parameter: [18.36395659  0.96537816 -1.6655805
3 -0.17064464]
```

```
Round1249-------squared error: 3.9479 parameter: [18.3641268   0.96512149 -1.6659020
1 -0.17071178]
Round1250-------squared error: 3.9478 parameter: [18.36429617  0.96486499 -1.6662230
7 -0.17077863]
Round1251-------squared error: 3.9477 parameter: [18.36446469  0.96460867 -1.6665437
1 -0.17084521]
Round1252-------squared error: 3.9476 parameter: [18.36463236  0.96435254 -1.6668639
3 -0.1709115 ]
Round1253-------squared error: 3.9475 parameter: [18.3647992   0.96409658 -1.6671837
3 -0.17097751]
Round1254-------squared error: 3.9475 parameter: [18.36496521  0.96384079 -1.6675031
-0.17104324]
Round1255-------squared error: 3.9474 parameter: [18.36513038  0.96358519 -1.6678220
6 -0.17110869]
Round1256-------squared error: 3.9473 parameter: [18.36529473  0.96332977 -1.6681406
-0.17117387]
Round1257-------squared error: 3.9472 parameter: [18.36545825  0.96307452 -1.6684587
3 -0.17123876]
Round1258-------squared error: 3.9471 parameter: [18.36562096  0.96281945 -1.6687764
3 -0.17130338]
Round1259-------squared error: 3.9471 parameter: [18.36578286  0.96256457 -1.6690937
2 -0.17136772]
Round1260-------squared error: 3.9470 parameter: [18.36594394  0.96230986 -1.6694106
-0.17143179]
Round1261-------squared error: 3.9469 parameter: [18.36610422  0.96205532 -1.6697270
6 -0.17149558]
Round1262-------squared error: 3.9468 parameter: [18.3662637   0.96180097 -1.6700431
1 -0.1715591 ]
Round1263-------squared error: 3.9468 parameter: [18.36642239  0.9615468  -1.6703587
4 -0.17162235]
Round1264-------squared error: 3.9467 parameter: [18.36658027  0.9612928  -1.6706739
6 -0.17168532]
Round1265-------squared error: 3.9466 parameter: [18.36673737  0.96103899 -1.6709887
7 -0.17174803]
Round1266-------squared error: 3.9465 parameter: [18.36689369  0.96078535 -1.6713031
7 -0.17181046]
Round1267-------squared error: 3.9464 parameter: [18.36704922  0.96053189 -1.6716171
6 -0.17187263]
Round1268-------squared error: 3.9464 parameter: [18.36720397  0.96027861 -1.6719307
4 -0.17193453]
Round1269-------squared error: 3.9463 parameter: [18.36735795  0.96002551 -1.6722439
-0.17199616]
Round1270-------squared error: 3.9462 parameter: [18.36751116  0.95977258 -1.6725566
7 -0.17205752]
Round1271-------squared error: 3.9461 parameter: [18.36766361  0.95951984 -1.6728690
2 -0.17211862]
Round1272-------squared error: 3.9461 parameter: [18.36781529  0.95926728 -1.6731809
7 -0.17217946]
Round1273-------squared error: 3.9460 parameter: [18.36796621  0.95901489 -1.6734925
1 -0.17224003]
Round1274-------squared error: 3.9459 parameter: [18.36811638  0.95876268 -1.6738036
4 -0.17230034]
Round1275-------squared error: 3.9458 parameter: [18.3682658   0.95851065 -1.6741143
8 -0.17236038]
Round1276-------squared error: 3.9458 parameter: [18.36841447  0.95825881 -1.6744247
-0.17242017]
Round1277-------squared error: 3.9457 parameter: [18.3685624   0.95800714 -1.6747346
3 -0.17247969]
Round1278-------squared error: 3.9456 parameter: [18.36870958  0.95775564 -1.6750441
5 -0.17253896]
Round1279-------squared error: 3.9455 parameter: [18.36885604  0.95750433 -1.6753532
7 -0.17259796]
Round1280-------squared error: 3.9455 parameter: [18.36900176  0.9572532  -1.6756619
9 -0.17265671]
```

```
Round1281-------squared error: 3.9454 parameter: [18.36914675  0.95700224 -1.6759703
-0.1727152 ]
Round1282-------squared error: 3.9453 parameter: [18.36929101  0.95675147 -1.6762782
2 -0.17277344]
Round1283-------squared error: 3.9453 parameter: [18.36943456  0.95650087 -1.6765857
4 -0.17283142]
Round1284-------squared error: 3.9452 parameter: [18.36957739  0.95625046 -1.6768928
6 -0.17288914]
Round1285-------squared error: 3.9451 parameter: [18.3697195   0.95600022 -1.6771995
9 -0.17294662]
Round1286-------squared error: 3.9450 parameter: [18.3698609   0.95575016 -1.6775059
1 -0.17300384]
Round1287-------squared error: 3.9450 parameter: [18.3700016   0.95550028 -1.6778118
4 -0.1730608 ]
Round1288-------squared error: 3.9449 parameter: [18.37014159  0.95525058 -1.6781173
7 -0.17311752]
Round1289-------squared error: 3.9448 parameter: [18.37028088  0.95500106 -1.6784225
1 -0.17317398]
Round1290-------squared error: 3.9448 parameter: [18.37041948  0.95475171 -1.6787272
6 -0.1732302 ]
Round1291-------squared error: 3.9447 parameter: [18.37055738  0.95450255 -1.6790316
1 -0.17328617]
Round1292-------squared error: 3.9446 parameter: [18.37069459  0.95425357 -1.6793355
7 -0.17334189]
Round1293-------squared error: 3.9445 parameter: [18.37083112  0.95400476 -1.6796391
3 -0.17339736]
Round1294-------squared error: 3.9445 parameter: [18.37096696  0.95375614 -1.6799423
1 -0.17345259]
Round1295-------squared error: 3.9444 parameter: [18.37110213  0.95350769 -1.6802450
9 -0.17350757]
Round1296-------squared error: 3.9443 parameter: [18.37123662  0.95325942 -1.6805474
8 -0.1735623 ]
Round1297-------squared error: 3.9443 parameter: [18.37137044  0.95301133 -1.6808494
8 -0.17361679]
Round1298-------squared error: 3.9442 parameter: [18.37150358  0.95276342 -1.6811511
-0.17367104]
Round1299-------squared error: 3.9441 parameter: [18.37163607  0.95251569 -1.6814523
2 -0.17372505]
Round1300-------squared error: 3.9441 parameter: [18.37176788  0.95226814 -1.6817531
6 -0.17377881]
Round1301-------squared error: 3.9440 parameter: [18.37189905  0.95202077 -1.6820536
1 -0.17383234]
Round1302-------squared error: 3.9439 parameter: [18.37202955  0.95177358 -1.6823536
8 -0.17388562]
Round1303-------squared error: 3.9439 parameter: [18.3721594   0.95152656 -1.6826533
5 -0.17393867]
Round1304-------squared error: 3.9438 parameter: [18.37228861  0.95127973 -1.6829526
5 -0.17399147]
Round1305-------squared error: 3.9437 parameter: [18.37241716  0.95103307 -1.6832515
6 -0.17404404]
Round1306-------squared error: 3.9437 parameter: [18.37254508  0.9507866  -1.6835500
8 -0.17409638]
Round1307-------squared error: 3.9436 parameter: [18.37267235  0.9505403  -1.6838482
3 -0.17414847]
Round1308-------squared error: 3.9435 parameter: [18.37279899  0.95029418 -1.6841459
9 -0.17420033]
Round1309-------squared error: 3.9434 parameter: [18.37292499  0.95004825 -1.6844433
6 -0.17425196]
Round1310-------squared error: 3.9434 parameter: [18.37305037  0.94980249 -1.6847403
6 -0.17430335]
Round1311-------squared error: 3.9433 parameter: [18.37317512  0.94955691 -1.6850369
8 -0.17435451]
Round1312-------squared error: 3.9433 parameter: [18.37329924  0.9493115  -1.6853332
2 -0.17440544]
```

```
Round1313-------squared error: 3.9432 parameter: [18.37342275  0.94906628 -1.6856290
7 -0.17445613]
Round1314-------squared error: 3.9431 parameter: [18.37354563  0.94882124 -1.6859245
5 -0.1745066 ]
Round1315-------squared error: 3.9431 parameter: [18.3736679   0.94857638 -1.6862196
5 -0.17455683]
Round1316-------squared error: 3.9430 parameter: [18.37378956  0.94833169 -1.6865143
8 -0.17460684]
Round1317-------squared error: 3.9429 parameter: [18.37391062  0.94808719 -1.6868087
3 -0.17465662]
Round1318-------squared error: 3.9429 parameter: [18.37403106  0.94784286 -1.6871027
-0.17470616]
Round1319-------squared error: 3.9428 parameter: [18.37415091  0.94759871 -1.6873962
9 -0.17475549]
Round1320-------squared error: 3.9427 parameter: [18.37427015  0.94735474 -1.6876895
1 -0.17480458]
Round1321-------squared error: 3.9427 parameter: [18.3743888   0.94711096 -1.6879823
6 -0.17485345]
Round1322-------squared error: 3.9426 parameter: [18.37450686  0.94686735 -1.6882748
3 -0.1749021 ]
Round1323-------squared error: 3.9425 parameter: [18.37462432  0.94662391 -1.6885669
4 -0.17495052]
Round1324-------squared error: 3.9425 parameter: [18.3747412   0.94638066 -1.6888586
6 -0.17499872]
Round1325-------squared error: 3.9424 parameter: [18.3748575   0.94613759 -1.6891500
2 -0.1750467 ]
Round1326-------squared error: 3.9423 parameter: [18.37497321  0.9458947  -1.6894410
1 -0.17509445]
Round1327-------squared error: 3.9423 parameter: [18.37508834  0.94565198 -1.6897316
2 -0.17514198]
Round1328-------squared error: 3.9422 parameter: [18.3752029   0.94540945 -1.6900218
7 -0.1751893 ]
Round1329-------squared error: 3.9422 parameter: [18.37531689  0.94516709 -1.6903117
4 -0.17523639]
Round1330-------squared error: 3.9421 parameter: [18.3754303   0.94492491 -1.6906012
5 -0.17528326]
Round1331-------squared error: 3.9420 parameter: [18.37554315  0.94468291 -1.6908903
9 -0.17532992]
Round1332-------squared error: 3.9420 parameter: [18.37565544  0.94444109 -1.6911791
7 -0.17537636]
Round1333-------squared error: 3.9419 parameter: [18.37576716  0.94419945 -1.6914675
7 -0.17542258]
Round1334-------squared error: 3.9418 parameter: [18.37587832  0.94395799 -1.6917556
1 -0.17546859]
Round1335-------squared error: 3.9418 parameter: [18.37598893  0.94371671 -1.6920432
9 -0.17551438]
Round1336-------squared error: 3.9417 parameter: [18.37609899  0.94347561 -1.6923306
-0.17555995]
Round1337-------squared error: 3.9417 parameter: [18.37620849  0.94323468 -1.6926175
4 -0.17560531]
Round1338-------squared error: 3.9416 parameter: [18.37631745  0.94299393 -1.6929041
3 -0.17565046]
Round1339-------squared error: 3.9415 parameter: [18.37642586  0.94275337 -1.6931903
5 -0.1756954 ]
Round1340-------squared error: 3.9415 parameter: [18.37653373  0.94251298 -1.6934762
-0.17574012]
Round1341-------squared error: 3.9414 parameter: [18.37664106  0.94227277 -1.6937617
-0.17578463]
Round1342-------squared error: 3.9413 parameter: [18.37674786  0.94203274 -1.6940468
3 -0.17582894]
Round1343-------squared error: 3.9413 parameter: [18.37685412  0.94179289 -1.6943316
1 -0.17587303]
Round1344-------squared error: 3.9412 parameter: [18.37695985  0.94155321 -1.6946160
2 -0.17591691]
```

```
Round1345-------squared error: 3.9412 parameter: [18.37706505  0.94131372 -1.6949000
7 -0.17596059]
Round1346-------squared error: 3.9411 parameter: [18.37716972  0.9410744  -1.6951837
7 -0.17600406]
Round1347-------squared error: 3.9410 parameter: [18.37727388  0.94083527 -1.6954671
-0.17604732]
Round1348-------squared error: 3.9410 parameter: [18.37737751  0.94059631 -1.6957500
8 -0.17609037]
Round1349-------squared error: 3.9409 parameter: [18.37748062  0.94035753 -1.6960327
1 -0.17613322]
Round1350-------squared error: 3.9409 parameter: [18.37758322  0.94011893 -1.6963149
7 -0.17617586]
Round1351-------squared error: 3.9408 parameter: [18.3776853   0.93988051 -1.6965968
8 -0.1762183 ]
Round1352-------squared error: 3.9407 parameter: [18.37778687  0.93964226 -1.6968784
4 -0.17626054]
Round1353-------squared error: 3.9407 parameter: [18.37788794  0.9394042  -1.6971596
4 -0.17630257]
Round1354-------squared error: 3.9406 parameter: [18.3779885   0.93916631 -1.6974404
8 -0.1763444 ]
Round1355-------squared error: 3.9406 parameter: [18.37808856  0.9389286  -1.6977209
8 -0.17638603]
Round1356-------squared error: 3.9405 parameter: [18.37818811  0.93869107 -1.6980011
2 -0.17642746]
Round1357-------squared error: 3.9405 parameter: [18.37828717  0.93845372 -1.6982809
-0.17646868]
Round1358-------squared error: 3.9404 parameter: [18.37838574  0.93821655 -1.6985603
4 -0.17650971]
Round1359-------squared error: 3.9403 parameter: [18.37848381  0.93797956 -1.6988394
2 -0.17655054]
Round1360-------squared error: 3.9403 parameter: [18.37858139  0.93774274 -1.6991181
6 -0.17659117]
Round1361-------squared error: 3.9402 parameter: [18.37867848  0.9375061  -1.6993965
4 -0.1766316 ]
Round1362-------squared error: 3.9402 parameter: [18.37877509  0.93726965 -1.6996745
8 -0.17667184]
Round1363-------squared error: 3.9401 parameter: [18.37887121  0.93703337 -1.6999522
6 -0.17671188]
Round1364-------squared error: 3.9400 parameter: [18.37896686  0.93679726 -1.7002296
-0.17675172]
Round1365-------squared error: 3.9400 parameter: [18.37906202  0.93656134 -1.7005065
9 -0.17679137]
Round1366-------squared error: 3.9399 parameter: [18.37915671  0.93632559 -1.7007832
3 -0.17683083]
Round1367-------squared error: 3.9399 parameter: [18.37925093  0.93609003 -1.7010595
3 -0.17687009]
Round1368-------squared error: 3.9398 parameter: [18.37934468  0.93585464 -1.7013354
8 -0.17690916]
Round1369-------squared error: 3.9398 parameter: [18.37943795  0.93561943 -1.7016110
8 -0.17694803]
Round1370-------squared error: 3.9397 parameter: [18.37953076  0.9353844  -1.7018863
4 -0.17698672]
Round1371-------squared error: 3.9397 parameter: [18.37962311  0.93514954 -1.7021612
6 -0.17702521]
Round1372-------squared error: 3.9396 parameter: [18.37971499  0.93491486 -1.7024358
3 -0.17706351]
Round1373-------squared error: 3.9395 parameter: [18.37980642  0.93468037 -1.7027100
6 -0.17710162]
Round1374-------squared error: 3.9395 parameter: [18.37989739  0.93444605 -1.7029839
5 -0.17713954]
Round1375-------squared error: 3.9394 parameter: [18.3799879   0.9342119  -1.7032574
9 -0.17717728]
Round1376-------squared error: 3.9394 parameter: [18.38007796  0.93397794 -1.7035306
9 -0.17721482]
```

```
Round1377-------squared error: 3.9393 parameter: [18.38016757  0.93374415 -1.7038035
6 -0.17725218]
Round1378-------squared error: 3.9393 parameter: [18.38025673  0.93351054 -1.7040760
8 -0.17728936]
Round1379-------squared error: 3.9392 parameter: [18.38034545  0.93327711 -1.7043482
6 -0.17732634]
Round1380-------squared error: 3.9392 parameter: [18.38043372  0.93304386 -1.7046201
-0.17736314]
Round1381-------squared error: 3.9391 parameter: [18.38052155  0.93281079 -1.7048916
-0.17739976]
Round1382-------squared error: 3.9390 parameter: [18.38060894  0.93257789 -1.7051627
7 -0.17743619]
Round1383-------squared error: 3.9390 parameter: [18.3806959   0.93234517 -1.7054336
-0.17747243]
Round1384-------squared error: 3.9389 parameter: [18.38078242  0.93211263 -1.7057040
9 -0.1775085 ]
Round1385-------squared error: 3.9389 parameter: [18.38086851  0.93188026 -1.7059742
4 -0.17754438]
Round1386-------squared error: 3.9388 parameter: [18.38095417  0.93164808 -1.7062440
6 -0.17758008]
Round1387-------squared error: 3.9388 parameter: [18.3810394   0.93141607 -1.7065135
4 -0.1776156 ]
Round1388-------squared error: 3.9387 parameter: [18.3811242   0.93118424 -1.7067826
9 -0.17765094]
Round1389-------squared error: 3.9387 parameter: [18.38120858  0.93095258 -1.7070515
1 -0.17768609]
Round1390-------squared error: 3.9386 parameter: [18.38129253  0.93072111 -1.7073199
9 -0.17772107]
Round1391-------squared error: 3.9386 parameter: [18.38137607  0.93048981 -1.7075881
3 -0.17775587]
Round1392-------squared error: 3.9385 parameter: [18.38145919  0.93025869 -1.7078559
5 -0.17779049]
Round1393-------squared error: 3.9385 parameter: [18.3815419   0.93002774 -1.7081234
3 -0.17782494]
Round1394-------squared error: 3.9384 parameter: [18.38162419  0.92979698 -1.7083905
8 -0.1778592 ]
Round1395-------squared error: 3.9383 parameter: [18.38170606  0.92956639 -1.7086574
-0.17789329]
Round1396-------squared error: 3.9383 parameter: [18.38178753  0.92933597 -1.7089238
9 -0.17792721]
Round1397-------squared error: 3.9382 parameter: [18.3818686   0.92910574 -1.7091900
4 -0.17796095]
Round1398-------squared error: 3.9382 parameter: [18.38194925  0.92887568 -1.7094558
7 -0.17799451]
Round1399-------squared error: 3.9381 parameter: [18.38202951  0.9286458  -1.7097213
7 -0.1780279 ]
Round1400-------squared error: 3.9381 parameter: [18.38210936  0.9284161  -1.7099865
4 -0.17806112]
Round1401-------squared error: 3.9380 parameter: [18.38218881  0.92818657 -1.7102513
9 -0.17809416]
Round1402-------squared error: 3.9380 parameter: [18.38226787  0.92795722 -1.7105159
1 -0.17812703]
Round1403-------squared error: 3.9379 parameter: [18.38234653  0.92772805 -1.7107800
9 -0.17815973]
Round1404-------squared error: 3.9379 parameter: [18.3824248   0.92749905 -1.7110439
6 -0.17819226]
Round1405-------squared error: 3.9378 parameter: [18.38250267  0.92727024 -1.7113075
-0.17822462]
Round1406-------squared error: 3.9378 parameter: [18.38258016  0.92704159 -1.7115707
1 -0.1782568 ]
Round1407-------squared error: 3.9377 parameter: [18.38265726  0.92681313 -1.7118336
-0.17828882]
Round1408-------squared error: 3.9377 parameter: [18.38273397  0.92658484 -1.7120961
6 -0.17832067]
```

```
Round1409-------squared error: 3.9376 parameter: [18.3828103   0.92635673 -1.7123584
-0.17835235]
Round1410-------squared error: 3.9376 parameter: [18.38288625  0.92612879 -1.7126203
1 -0.17838386]
Round1411-------squared error: 3.9375 parameter: [18.38296182  0.92590104 -1.7128819
1 -0.17841521]
Round1412-------squared error: 3.9375 parameter: [18.38303701  0.92567345 -1.7131431
8 -0.17844639]
Round1413-------squared error: 3.9374 parameter: [18.38311183  0.92544605 -1.7134041
3 -0.1784774 ]
Round1414-------squared error: 3.9374 parameter: [18.38318627  0.92521882 -1.7136647
6 -0.17850825]
Round1415-------squared error: 3.9373 parameter: [18.38326034  0.92499177 -1.7139250
7 -0.17853893]
Round1416-------squared error: 3.9373 parameter: [18.38333403  0.92476489 -1.7141850
5 -0.17856945]
Round1417-------squared error: 3.9372 parameter: [18.38340736  0.92453819 -1.7144447
2 -0.1785998 ]
Round1418-------squared error: 3.9372 parameter: [18.38348033  0.92431167 -1.7147040
7 -0.17862999]
Round1419-------squared error: 3.9371 parameter: [18.38355293  0.92408532 -1.7149631
-0.17866002]
Round1420-------squared error: 3.9371 parameter: [18.38362516  0.92385915 -1.7152218
2 -0.17868988]
Round1421-------squared error: 3.9370 parameter: [18.38369703  0.92363316 -1.7154802
1 -0.17871959]
Round1422-------squared error: 3.9370 parameter: [18.38376855  0.92340734 -1.7157382
9 -0.17874913]
Round1423-------squared error: 3.9369 parameter: [18.38383971  0.9231817  -1.7159960
5 -0.17877851]
Round1424-------squared error: 3.9369 parameter: [18.38391051  0.92295623 -1.7162535
-0.17880773]
Round1425-------squared error: 3.9368 parameter: [18.38398096  0.92273094 -1.7165106
3 -0.1788368 ]
Round1426-------squared error: 3.9368 parameter: [18.38405105  0.92250583 -1.7167674
4 -0.1788657 ]
Round1427-------squared error: 3.9367 parameter: [18.3841208   0.92228089 -1.7170239
4 -0.17889444]
Round1428-------squared error: 3.9367 parameter: [18.38419019  0.92205613 -1.7172801
3 -0.17892303]
Round1429-------squared error: 3.9366 parameter: [18.38425924  0.92183154 -1.717536
-0.17895146]
Round1430-------squared error: 3.9366 parameter: [18.38432794  0.92160713 -1.7177915
6 -0.17897973]
Round1431-------squared error: 3.9365 parameter: [18.3843963   0.9213829  -1.7180468
1 -0.17900785]
Round1432-------squared error: 3.9365 parameter: [18.38446432  0.92115884 -1.7183017
5 -0.17903581]
Round1433-------squared error: 3.9364 parameter: [18.384532    0.92093495 -1.7185563
7 -0.17906362]
Round1434-------squared error: 3.9364 parameter: [18.38459934  0.92071124 -1.7188106
8 -0.17909127]
Round1435-------squared error: 3.9363 parameter: [18.38466635  0.92048771 -1.7190646
9 -0.17911876]
Round1436-------squared error: 3.9363 parameter: [18.38473301  0.92026435 -1.7193183
8 -0.17914611]
Round1437-------squared error: 3.9362 parameter: [18.38479935  0.92004117 -1.7195717
6 -0.17917329]
Round1438-------squared error: 3.9362 parameter: [18.38486535  0.91981816 -1.7198248
4 -0.17920033]
Round1439-------squared error: 3.9361 parameter: [18.38493102  0.91959533 -1.7200776
-0.17922722]
Round1440-------squared error: 3.9361 parameter: [18.38499637  0.91937268 -1.7203300
6 -0.17925395]
```

```
Round1441-------squared error: 3.9361 parameter: [18.38506139  0.91915019 -1.7205822
1 -0.17928053]
Round1442-------squared error: 3.9360 parameter: [18.38512608  0.91892789 -1.7208340
5 -0.17930696]
Round1443-------squared error: 3.9360 parameter: [18.38519045  0.91870576 -1.7210855
9 -0.17933324]
Round1444-------squared error: 3.9359 parameter: [18.3852545   0.9184838  -1.7213368
2 -0.17935937]
Round1445-------squared error: 3.9359 parameter: [18.38531823  0.91826202 -1.7215877
4 -0.17938536]
Round1446-------squared error: 3.9358 parameter: [18.38538163  0.91804041 -1.7218383
6 -0.17941119]
Round1447-------squared error: 3.9358 parameter: [18.38544473  0.91781898 -1.7220886
7 -0.17943688]
Round1448-------squared error: 3.9357 parameter: [18.3855075   0.91759773 -1.7223386
8 -0.17946242]
Round1449-------squared error: 3.9357 parameter: [18.38556997  0.91737664 -1.7225883
9 -0.17948781]
Round1450-------squared error: 3.9356 parameter: [18.38563212  0.91715574 -1.7228377
9 -0.17951305]
Round1451-------squared error: 3.9356 parameter: [18.38569395  0.916935   -1.7230868
9 -0.17953815]
Round1452-------squared error: 3.9355 parameter: [18.38575549  0.91671445 -1.7233356
9 -0.1795631 ]
Round1453-------squared error: 3.9355 parameter: [18.38581671  0.91649406 -1.7235841
8 -0.17958791]
Round1454-------squared error: 3.9354 parameter: [18.38587762  0.91627385 -1.7238323
8 -0.17961257]
Round1455-------squared error: 3.9354 parameter: [18.38593824  0.91605382 -1.7240802
7 -0.17963709]
Round1456-------squared error: 3.9354 parameter: [18.38599854  0.91583396 -1.7243278
6 -0.17966147]
Round1457-------squared error: 3.9353 parameter: [18.38605855  0.91561427 -1.7245751
6 -0.1796857 ]
Round1458-------squared error: 3.9353 parameter: [18.38611826  0.91539476 -1.7248221
5 -0.17970979]
Round1459-------squared error: 3.9352 parameter: [18.38617767  0.91517542 -1.7250688
4 -0.17973374]
Round1460-------squared error: 3.9352 parameter: [18.38623678  0.91495626 -1.7253152
4 -0.17975755]
Round1461-------squared error: 3.9351 parameter: [18.3862956   0.91473727 -1.7255613
4 -0.17978121]
Round1462-------squared error: 3.9351 parameter: [18.38635412  0.91451845 -1.7258071
4 -0.17980474]
Round1463-------squared error: 3.9350 parameter: [18.38641235  0.91429981 -1.7260526
4 -0.17982812]
Round1464-------squared error: 3.9350 parameter: [18.38647029  0.91408135 -1.7262978
5 -0.17985136]
Round1465-------squared error: 3.9350 parameter: [18.38652793  0.91386305 -1.7265427
6 -0.17987447]
Round1466-------squared error: 3.9349 parameter: [18.38658529  0.91364493 -1.7267873
7 -0.17989744]
Round1467-------squared error: 3.9349 parameter: [18.38664237  0.91342698 -1.7270316
9 -0.17992026]
Round1468-------squared error: 3.9348 parameter: [18.38669916  0.91320921 -1.7272757
1 -0.17994295]
Round1469-------squared error: 3.9348 parameter: [18.38675566  0.91299161 -1.7275194
4 -0.17996551]
Round1470-------squared error: 3.9347 parameter: [18.38681188  0.91277419 -1.7277628
8 -0.17998792]
Round1471-------squared error: 3.9347 parameter: [18.38686782  0.91255693 -1.7280060
2 -0.1800102 ]
Round1472-------squared error: 3.9346 parameter: [18.38692348  0.91233985 -1.7282488
7 -0.18003235]
```

```
Round1473-------squared error: 3.9346 parameter: [18.38697887  0.91212295 -1.7284914
3 -0.18005436]
Round1474-------squared error: 3.9346 parameter: [18.38703397  0.91190622 -1.7287336
9 -0.18007623]
Round1475-------squared error: 3.9345 parameter: [18.3870888   0.91168966 -1.7289756
7 -0.18009797]
Round1476-------squared error: 3.9345 parameter: [18.38714336  0.91147327 -1.7292173
5 -0.18011957]
Round1477-------squared error: 3.9344 parameter: [18.38719764  0.91125706 -1.7294587
4 -0.18014104]
Round1478-------squared error: 3.9344 parameter: [18.38725165  0.91104102 -1.7296998
4 -0.18016238]
Round1479-------squared error: 3.9343 parameter: [18.38730539  0.91082515 -1.7299406
5 -0.18018359]
Round1480-------squared error: 3.9343 parameter: [18.38735887  0.91060946 -1.7301811
7 -0.18020466]
Round1481-------squared error: 3.9343 parameter: [18.38741207  0.91039393 -1.7304214
-0.1802256 ]
Round1482-------squared error: 3.9342 parameter: [18.38746501  0.91017859 -1.7306613
5 -0.18024641]
Round1483-------squared error: 3.9342 parameter: [18.38751769  0.90996341 -1.730901
-0.18026709]
Round1484-------squared error: 3.9341 parameter: [18.3875701   0.90974841 -1.7311403
7 -0.18028764]
Round1485-------squared error: 3.9341 parameter: [18.38762225  0.90953358 -1.7313794
5 -0.18030806]
Round1486-------squared error: 3.9340 parameter: [18.38767414  0.90931892 -1.7316182
4 -0.18032835]
Round1487-------squared error: 3.9340 parameter: [18.38772577  0.90910443 -1.7318567
5 -0.18034851]
Round1488-------squared error: 3.9340 parameter: [18.38777714  0.90889012 -1.7320949
7 -0.18036854]
Round1489-------squared error: 3.9339 parameter: [18.38782825  0.90867598 -1.7323329
1 -0.18038844]
Round1490-------squared error: 3.9339 parameter: [18.38787911  0.90846201 -1.7325705
6 -0.18040822]
Round1491-------squared error: 3.9338 parameter: [18.38792972  0.90824821 -1.7328079
3 -0.18042786]
Round1492-------squared error: 3.9338 parameter: [18.38798007  0.90803459 -1.7330450
1 -0.18044739]
Round1493-------squared error: 3.9337 parameter: [18.38803017  0.90782113 -1.7332818
1 -0.18046678]
Round1494-------squared error: 3.9337 parameter: [18.38808002  0.90760785 -1.7335183
3 -0.18048605]
Round1495-------squared error: 3.9337 parameter: [18.38812962  0.90739474 -1.7337545
6 -0.18050519]
Round1496-------squared error: 3.9336 parameter: [18.38817897  0.90718181 -1.7339905
1 -0.18052421]
Round1497-------squared error: 3.9336 parameter: [18.38822807  0.90696904 -1.7342261
8 -0.1805431 ]
Round1498-------squared error: 3.9335 parameter: [18.38827693  0.90675645 -1.7344615
6 -0.18056187]
Round1499-------squared error: 3.9335 parameter: [18.38832555  0.90654402 -1.7346966
7 -0.18058052]
Round1500-------squared error: 3.9335 parameter: [18.38837392  0.90633177 -1.7349315
-0.18059904]
Round1501-------squared error: 3.9334 parameter: [18.38842205  0.90611969 -1.7351660
4 -0.18061744]
Round1502-------squared error: 3.9334 parameter: [18.38846994  0.90590779 -1.7354003
1 -0.18063571]
Round1503-------squared error: 3.9333 parameter: [18.38851759  0.90569605 -1.7356342
9 -0.18065387]
Round1504-------squared error: 3.9333 parameter: [18.388565    0.90548449 -1.735868
-0.1806719 ]
```

```
Round1505-------squared error: 3.9333 parameter: [18.38861218  0.90527309 -1.7361014
3 -0.18068981]
Round1506-------squared error: 3.9332 parameter: [18.38865912  0.90506187 -1.7363345
8 -0.1807076 ]
Round1507-------squared error: 3.9332 parameter: [18.38870582  0.90485082 -1.7365674
5 -0.18072527]
Round1508-------squared error: 3.9331 parameter: [18.38875229  0.90463994 -1.7368000
5 -0.18074282]
Round1509-------squared error: 3.9331 parameter: [18.38879853  0.90442923 -1.7370323
7 -0.18076025]
Round1510-------squared error: 3.9330 parameter: [18.38884454  0.90421869 -1.7372644
1 -0.18077756]
Round1511-------squared error: 3.9330 parameter: [18.38889032  0.90400832 -1.7374961
7 -0.18079475]
Round1512-------squared error: 3.9330 parameter: [18.38893586  0.90379812 -1.7377276
6 -0.18081183]
Round1513-------squared error: 3.9329 parameter: [18.38898118  0.9035881  -1.7379588
8 -0.18082878]
Round1514-------squared error: 3.9329 parameter: [18.38902628  0.90337824 -1.7381898
2 -0.18084562]
Round1515-------squared error: 3.9328 parameter: [18.38907115  0.90316855 -1.7384204
9 -0.18086234]
Round1516-------squared error: 3.9328 parameter: [18.38911579  0.90295904 -1.7386508
8 -0.18087895]
Round1517-------squared error: 3.9328 parameter: [18.38916021  0.90274969 -1.738881
-0.18089544]
Round1518-------squared error: 3.9327 parameter: [18.38920441  0.90254052 -1.7391108
5 -0.18091181]
Round1519-------squared error: 3.9327 parameter: [18.38924839  0.90233151 -1.7393404
2 -0.18092807]
Round1520-------squared error: 3.9327 parameter: [18.38929215  0.90212268 -1.7395697
2 -0.18094421]
Round1521-------squared error: 3.9326 parameter: [18.38933569  0.90191402 -1.7397987
5 -0.18096023]
Round1522-------squared error: 3.9326 parameter: [18.38937901  0.90170552 -1.7400275
1 -0.18097615]
Round1523-------squared error: 3.9325 parameter: [18.38942211  0.9014972  -1.740256
-0.18099194]
Round1524-------squared error: 3.9325 parameter: [18.389465    0.90128904 -1.7404842
1 -0.18100763]
Round1525-------squared error: 3.9325 parameter: [18.38950768  0.90108106 -1.7407121
6 -0.1810232 ]
Round1526-------squared error: 3.9324 parameter: [18.38955014  0.90087324 -1.7409398
4 -0.18103866]
Round1527-------squared error: 3.9324 parameter: [18.38959239  0.9006656  -1.7411672
4 -0.18105401]
Round1528-------squared error: 3.9323 parameter: [18.38963443  0.90045812 -1.7413943
8 -0.18106924]
Round1529-------squared error: 3.9323 parameter: [18.38967625  0.90025082 -1.7416212
5 -0.18108437]
Round1530-------squared error: 3.9323 parameter: [18.38971787  0.90004368 -1.7418478
5 -0.18109938]
Round1531-------squared error: 3.9322 parameter: [18.38975928  0.89983671 -1.7420741
9 -0.18111428]
Round1532-------squared error: 3.9322 parameter: [18.38980049  0.89962991 -1.7423002
5 -0.18112907]
Round1533-------squared error: 3.9321 parameter: [18.38984148  0.89942328 -1.7425260
5 -0.18114375]
Round1534-------squared error: 3.9321 parameter: [18.38988228  0.89921682 -1.7427515
8 -0.18115833]
Round1535-------squared error: 3.9321 parameter: [18.38992287  0.89901053 -1.7429768
5 -0.18117279]
Round1536-------squared error: 3.9320 parameter: [18.38996325  0.89880441 -1.7432018
5 -0.18118714]
```

```
Round1537-------squared error: 3.9320 parameter: [18.39000344  0.89859846 -1.7434265
9 -0.18120139]
Round1538-------squared error: 3.9320 parameter: [18.39004342  0.89839267 -1.7436510
6 -0.18121552]
Round1539-------squared error: 3.9319 parameter: [18.3900832   0.89818706 -1.7438752
7 -0.18122955]
Round1540-------squared error: 3.9319 parameter: [18.39012279  0.89798161 -1.7440992
1 -0.18124348]
Round1541-------squared error: 3.9318 parameter: [18.39016217  0.89777633 -1.7443228
9 -0.18125729]
Round1542-------squared error: 3.9318 parameter: [18.39020136  0.89757122 -1.7445463
-0.181271  ]
Round1543-------squared error: 3.9318 parameter: [18.39024035  0.89736628 -1.7447694
5 -0.1812846 ]
Round1544-------squared error: 3.9317 parameter: [18.39027915  0.89716151 -1.7449923
4 -0.1812981 ]
Round1545-------squared error: 3.9317 parameter: [18.39031776  0.8969569  -1.7452149
7 -0.18131149]
Round1546-------squared error: 3.9317 parameter: [18.39035617  0.89675247 -1.7454373
3 -0.18132478]
Round1547-------squared error: 3.9316 parameter: [18.39039439  0.8965482  -1.7456594
4 -0.18133796]
Round1548-------squared error: 3.9316 parameter: [18.39043241  0.8963441  -1.7458812
8 -0.18135104]
Round1549-------squared error: 3.9315 parameter: [18.39047025  0.89614017 -1.7461028
6 -0.18136401]
Round1550-------squared error: 3.9315 parameter: [18.3905079   0.8959364  -1.7463241
9 -0.18137688]
Round1551-------squared error: 3.9315 parameter: [18.39054536  0.8957328  -1.7465452
5 -0.18138965]
Round1552-------squared error: 3.9314 parameter: [18.39058263  0.89552938 -1.7467660
5 -0.18140231]
Round1553-------squared error: 3.9314 parameter: [18.39061972  0.89532611 -1.7469866
-0.18141487]
Round1554-------squared error: 3.9314 parameter: [18.39065662  0.89512302 -1.7472068
8 -0.18142733]
Round1555-------squared error: 3.9313 parameter: [18.39069334  0.89492009 -1.7474269
1 -0.18143969]
Round1556-------squared error: 3.9313 parameter: [18.39072987  0.89471733 -1.7476466
8 -0.18145195]
Round1557-------squared error: 3.9313 parameter: [18.39076622  0.89451474 -1.7478661
9 -0.1814641 ]
Round1558-------squared error: 3.9312 parameter: [18.39080239  0.89431232 -1.7480854
4 -0.18147616]
Round1559-------squared error: 3.9312 parameter: [18.39083838  0.89411006 -1.7483044
4 -0.18148811]
Round1560-------squared error: 3.9311 parameter: [18.39087419  0.89390797 -1.7485231
8 -0.18149996]
Round1561-------squared error: 3.9311 parameter: [18.39090982  0.89370605 -1.7487416
7 -0.18151172]
Round1562-------squared error: 3.9311 parameter: [18.39094527  0.89350429 -1.7489599
-0.18152337]
Round1563-------squared error: 3.9310 parameter: [18.39098054  0.8933027  -1.7491778
7 -0.18153493]
Round1564-------squared error: 3.9310 parameter: [18.39101564  0.89310128 -1.7493955
9 -0.18154639]
Round1565-------squared error: 3.9310 parameter: [18.39105056  0.89290002 -1.7496130
5 -0.18155775]
Round1566-------squared error: 3.9309 parameter: [18.39108531  0.89269893 -1.7498302
7 -0.18156901]
Round1567-------squared error: 3.9309 parameter: [18.39111988  0.89249801 -1.7500472
2 -0.18158017]
Round1568-------squared error: 3.9309 parameter: [18.39115428  0.89229725 -1.7502639
3 -0.18159124]
```

```
Round1569-------squared error: 3.9308 parameter: [18.39118851  0.89209666 -1.7504803
8 -0.18160221]
Round1570-------squared error: 3.9308 parameter: [18.39122257  0.89189624 -1.7506965
8 -0.18161309]
Round1571-------squared error: 3.9308 parameter: [18.39125646  0.89169598 -1.7509125
2 -0.18162386]
Round1572-------squared error: 3.9307 parameter: [18.39129017  0.89149589 -1.7511282
2 -0.18163455]
Round1573-------squared error: 3.9307 parameter: [18.39132372  0.89129597 -1.7513436
6 -0.18164513]
Round1574-------squared error: 3.9307 parameter: [18.3913571   0.89109621 -1.7515588
5 -0.18165562]
Round1575-------squared error: 3.9306 parameter: [18.39139032  0.89089661 -1.7517737
9 -0.18166602]
Round1576-------squared error: 3.9306 parameter: [18.39142337  0.89069719 -1.7519884
8 -0.18167632]
Round1577-------squared error: 3.9305 parameter: [18.39145625  0.89049792 -1.7522029
2 -0.18168653]
Round1578-------squared error: 3.9305 parameter: [18.39148897  0.89029883 -1.7524171
1 -0.18169665]
Round1579-------squared error: 3.9305 parameter: [18.39152152  0.8900999  -1.7526310
5 -0.18170667]
Round1580-------squared error: 3.9304 parameter: [18.39155392  0.88990113 -1.7528447
4 -0.1817166 ]
Round1581-------squared error: 3.9304 parameter: [18.39158615  0.88970253 -1.7530581
9 -0.18172643]
Round1582-------squared error: 3.9304 parameter: [18.39161822  0.8895041  -1.7532713
8 -0.18173617]
Round1583-------squared error: 3.9303 parameter: [18.39165013  0.88930583 -1.7534843
3 -0.18174583]
Round1584-------squared error: 3.9303 parameter: [18.39168187  0.88910772 -1.7536970
3 -0.18175538]
Round1585-------squared error: 3.9303 parameter: [18.39171347  0.88890978 -1.7539094
8 -0.18176485]
Round1586-------squared error: 3.9302 parameter: [18.3917449   0.88871201 -1.7541216
9 -0.18177423]
Round1587-------squared error: 3.9302 parameter: [18.39177617  0.8885144  -1.7543336
5 -0.18178352]
Round1588-------squared error: 3.9302 parameter: [18.39180729  0.88831696 -1.7545453
7 -0.18179271]
Round1589-------squared error: 3.9301 parameter: [18.39183826  0.88811968 -1.7547568
3 -0.18180182]
Round1590-------squared error: 3.9301 parameter: [18.39186906  0.88792256 -1.7549680
6 -0.18181083]
Round1591-------squared error: 3.9301 parameter: [18.39189972  0.88772561 -1.7551790
3 -0.18181976]
Round1592-------squared error: 3.9300 parameter: [18.39193022  0.88752882 -1.7553897
7 -0.1818286 ]
Round1593-------squared error: 3.9300 parameter: [18.39196057  0.8873322  -1.7556002
6 -0.18183735]
Round1594-------squared error: 3.9300 parameter: [18.39199077  0.88713574 -1.7558105
-0.18184601]
Round1595-------squared error: 3.9299 parameter: [18.39202081  0.88693945 -1.7560205
1 -0.18185458]
Round1596-------squared error: 3.9299 parameter: [18.39205071  0.88674332 -1.7562302
6 -0.18186306]
Round1597-------squared error: 3.9299 parameter: [18.39208046  0.88654736 -1.7564397
8 -0.18187146]
Round1598-------squared error: 3.9298 parameter: [18.39211005  0.88635156 -1.7566490
5 -0.18187977]
Round1599-------squared error: 3.9298 parameter: [18.3921395   0.88615592 -1.7568580
8 -0.18188799]
Round1600-------squared error: 3.9298 parameter: [18.39216881  0.88596044 -1.7570668
7 -0.18189613]
```

```
Round1601-------squared error: 3.9297 parameter: [18.39219796  0.88576513 -1.7572754
2 -0.18190417]
Round1602-------squared error: 3.9297 parameter: [18.39222697  0.88556999 -1.7574837
3 -0.18191214]
Round1603-------squared error: 3.9297 parameter: [18.39225584  0.885375   -1.7576918
-0.18192002]
Round1604-------squared error: 3.9296 parameter: [18.39228456  0.88518019 -1.7578996
2 -0.18192781]
Round1605-------squared error: 3.9296 parameter: [18.39231313  0.88498553 -1.7581072
1 -0.18193552]
Round1606-------squared error: 3.9296 parameter: [18.39234157  0.88479104 -1.7583145
6 -0.18194314]
Round1607-------squared error: 3.9295 parameter: [18.39236986  0.88459671 -1.7585216
6 -0.18195068]
Round1608-------squared error: 3.9295 parameter: [18.39239801  0.88440254 -1.7587285
3 -0.18195813]
Round1609-------squared error: 3.9295 parameter: [18.39242602  0.88420854 -1.7589351
6 -0.1819655 ]
Round1610-------squared error: 3.9294 parameter: [18.39245389  0.8840147  -1.7591415
5 -0.18197279]
Round1611-------squared error: 3.9294 parameter: [18.39248162  0.88382102 -1.7593477
1 -0.18198   ]
Round1612-------squared error: 3.9294 parameter: [18.39250921  0.8836275  -1.7595536
2 -0.18198712]
Round1613-------squared error: 3.9293 parameter: [18.39253667  0.88343415 -1.7597593
-0.18199415]
Round1614-------squared error: 3.9293 parameter: [18.39256398  0.88324096 -1.7599647
4 -0.18200111]
Round1615-------squared error: 3.9293 parameter: [18.39259116  0.88304793 -1.7601699
5 -0.18200799]
Round1616-------squared error: 3.9292 parameter: [18.39261821  0.88285507 -1.7603749
2 -0.18201478]
Round1617-------squared error: 3.9292 parameter: [18.39264512  0.88266237 -1.7605796
5 -0.18202149]
Round1618-------squared error: 3.9292 parameter: [18.39267189  0.88246983 -1.7607841
5 -0.18202812]
Round1619-------squared error: 3.9292 parameter: [18.39269853  0.88227745 -1.7609884
1 -0.18203467]
Round1620-------squared error: 3.9291 parameter: [18.39272504  0.88208523 -1.7611924
4 -0.18204114]
Round1621-------squared error: 3.9291 parameter: [18.39275142  0.88189318 -1.7613962
3 -0.18204753]
Round1622-------squared error: 3.9291 parameter: [18.39277766  0.88170129 -1.7615997
9 -0.18205384]
Round1623-------squared error: 3.9290 parameter: [18.39280377  0.88150956 -1.7618031
1 -0.18206007]
Round1624-------squared error: 3.9290 parameter: [18.39282975  0.88131799 -1.7620062
1 -0.18206622]
Round1625-------squared error: 3.9290 parameter: [18.3928556   0.88112658 -1.7622090
6 -0.18207229]
Round1626-------squared error: 3.9289 parameter: [18.39288132  0.88093533 -1.7624116
9 -0.18207828]
Round1627-------squared error: 3.9289 parameter: [18.39290692  0.88074425 -1.7626140
8 -0.18208419]
Round1628-------squared error: 3.9289 parameter: [18.39293238  0.88055333 -1.7628162
4 -0.18209003]
Round1629-------squared error: 3.9288 parameter: [18.39295772  0.88036256 -1.7630181
7 -0.18209579]
Round1630-------squared error: 3.9288 parameter: [18.39298293  0.88017196 -1.7632198
7 -0.18210147]
Round1631-------squared error: 3.9288 parameter: [18.39300802  0.87998152 -1.7634213
4 -0.18210707]
Round1632-------squared error: 3.9287 parameter: [18.39303298  0.87979125 -1.7636225
7 -0.1821126 ]
```

```
Round1633-------squared error: 3.9287 parameter: [18.39305781  0.87960113 -1.7638235
8 -0.18211804]
Round1634-------squared error: 3.9287 parameter: [18.39308252  0.87941117 -1.7640243
5 -0.18212342]
Round1635-------squared error: 3.9287 parameter: [18.39310711  0.87922137 -1.7642249
-0.18212871]
Round1636-------squared error: 3.9286 parameter: [18.39313158  0.87903174 -1.7644252
1 -0.18213393]
Round1637-------squared error: 3.9286 parameter: [18.39315592  0.87884226 -1.7646253
-0.18213908]
Round1638-------squared error: 3.9286 parameter: [18.39318014  0.87865295 -1.7648251
5 -0.18214415]
Round1639-------squared error: 3.9285 parameter: [18.39320424  0.8784638  -1.7650247
8 -0.18214914]
Round1640-------squared error: 3.9285 parameter: [18.39322822  0.8782748  -1.7652241
8 -0.18215406]
Round1641-------squared error: 3.9285 parameter: [18.39325208  0.87808597 -1.7654233
6 -0.18215891]
Round1642-------squared error: 3.9284 parameter: [18.39327581  0.87789729 -1.7656223
-0.18216368]
Round1643-------squared error: 3.9284 parameter: [18.39329944  0.87770878 -1.7658210
2 -0.18216838]
Round1644-------squared error: 3.9284 parameter: [18.39332294  0.87752043 -1.7660195
1 -0.182173  ]
Round1645-------squared error: 3.9283 parameter: [18.39334632  0.87733223 -1.7662177
8 -0.18217755]
Round1646-------squared error: 3.9283 parameter: [18.39336959  0.8771442  -1.7664158
1 -0.18218203]
Round1647-------squared error: 3.9283 parameter: [18.39339274  0.87695632 -1.7666136
3 -0.18218643]
Round1648-------squared error: 3.9283 parameter: [18.39341578  0.87676861 -1.7668112
1 -0.18219077]
Round1649-------squared error: 3.9282 parameter: [18.3934387   0.87658105 -1.7670085
7 -0.18219503]
Round1650-------squared error: 3.9282 parameter: [18.39346151  0.87639366 -1.7672057
1 -0.18219921]
Round1651-------squared error: 3.9282 parameter: [18.3934842   0.87620642 -1.7674026
2 -0.18220333]
Round1652-------squared error: 3.9281 parameter: [18.39350678  0.87601934 -1.7675993
1 -0.18220737]
Round1653-------squared error: 3.9281 parameter: [18.39352925  0.87583242 -1.7677957
7 -0.18221135]
Round1654-------squared error: 3.9281 parameter: [18.3935516   0.87564566 -1.7679920
1 -0.18221525]
Round1655-------squared error: 3.9281 parameter: [18.39357384  0.87545906 -1.7681880
3 -0.18221908]
Round1656-------squared error: 3.9280 parameter: [18.39359597  0.87527262 -1.7683838
2 -0.18222284]
Round1657-------squared error: 3.9280 parameter: [18.39361799  0.87508634 -1.7685793
9 -0.18222653]
Round1658-------squared error: 3.9280 parameter: [18.3936399   0.87490021 -1.7687747
4 -0.18223015]
Round1659-------squared error: 3.9279 parameter: [18.3936617   0.87471425 -1.7689698
6 -0.1822337 ]
Round1660-------squared error: 3.9279 parameter: [18.39368339  0.87452844 -1.7691647
7 -0.18223719]
Round1661-------squared error: 3.9279 parameter: [18.39370498  0.87434279 -1.7693594
5 -0.1822406 ]
Round1662-------squared error: 3.9278 parameter: [18.39372645  0.8741573  -1.7695539
1 -0.18224394]
Round1663-------squared error: 3.9278 parameter: [18.39374782  0.87397196 -1.7697481
5 -0.18224722]
Round1664-------squared error: 3.9278 parameter: [18.39376908  0.87378679 -1.7699421
7 -0.18225042]
```

```
Round1665-------squared error: 3.9278 parameter: [18.39379024  0.87360177 -1.7701359
7 -0.18225356]
Round1666-------squared error: 3.9277 parameter: [18.39381128  0.87341691 -1.7703295
5 -0.18225663]
Round1667-------squared error: 3.9277 parameter: [18.39383223  0.87323221 -1.7705229
1 -0.18225964]
Round1668-------squared error: 3.9277 parameter: [18.39385307  0.87304767 -1.7707160
5 -0.18226257]
Round1669-------squared error: 3.9276 parameter: [18.3938738   0.87286328 -1.7709089
7 -0.18226544]
Round1670-------squared error: 3.9276 parameter: [18.39389443  0.87267905 -1.7711016
7 -0.18226825]
Round1671-------squared error: 3.9276 parameter: [18.39391496  0.87249498 -1.7712941
6 -0.18227098]
Round1672-------squared error: 3.9276 parameter: [18.39393539  0.87231107 -1.7714864
2 -0.18227365]
Round1673-------squared error: 3.9275 parameter: [18.39395571  0.87212731 -1.7716784
7 -0.18227625]
Round1674-------squared error: 3.9275 parameter: [18.39397593  0.87194371 -1.7718703
-0.18227879]
Round1675-------squared error: 3.9275 parameter: [18.39399605  0.87176027 -1.7720619
2 -0.18228126]
Round1676-------squared error: 3.9274 parameter: [18.39401607  0.87157699 -1.7722533
1 -0.18228367]
Round1677-------squared error: 3.9274 parameter: [18.39403599  0.87139386 -1.7724444
9 -0.18228601]
Round1678-------squared error: 3.9274 parameter: [18.39405581  0.87121089 -1.7726354
6 -0.18228829]
Round1679-------squared error: 3.9274 parameter: [18.39407553  0.87102807 -1.7728262
-0.1822905 ]
Round1680-------squared error: 3.9273 parameter: [18.39409515  0.87084541 -1.7730167
4 -0.18229265]
Round1681-------squared error: 3.9273 parameter: [18.39411468  0.87066291 -1.7732070
5 -0.18229473]
Round1682-------squared error: 3.9273 parameter: [18.3941341   0.87048057 -1.7733971
5 -0.18229675]
Round1683-------squared error: 3.9273 parameter: [18.39415343  0.87029838 -1.7735870
4 -0.18229871]
Round1684-------squared error: 3.9272 parameter: [18.39417267  0.87011634 -1.7737767
1 -0.1823006 ]
Round1685-------squared error: 3.9272 parameter: [18.3941918   0.86993447 -1.7739661
7 -0.18230243]
Round1686-------squared error: 3.9272 parameter: [18.39421084  0.86975275 -1.7741554
2 -0.1823042 ]
Round1687-------squared error: 3.9271 parameter: [18.39422979  0.86957118 -1.7743444
5 -0.1823059 ]
Round1688-------squared error: 3.9271 parameter: [18.39424864  0.86938977 -1.7745332
6 -0.18230754]
Round1689-------squared error: 3.9271 parameter: [18.3942674   0.86920852 -1.7747218
7 -0.18230912]
Round1690-------squared error: 3.9271 parameter: [18.39428606  0.86902742 -1.7749102
6 -0.18231064]
Round1691-------squared error: 3.9270 parameter: [18.39430463  0.86884648 -1.7750984
4 -0.18231209]
Round1692-------squared error: 3.9270 parameter: [18.39432311  0.86866569 -1.7752864
1 -0.18231349]
Round1693-------squared error: 3.9270 parameter: [18.39434149  0.86848506 -1.7754741
6 -0.18231482]
Round1694-------squared error: 3.9269 parameter: [18.39435978  0.86830458 -1.7756617
1 -0.18231609]
Round1695-------squared error: 3.9269 parameter: [18.39437799  0.86812426 -1.7758490
4 -0.18231731]
Round1696-------squared error: 3.9269 parameter: [18.3943961   0.8679441  -1.7760361
6 -0.18231846]
```

```
Round1697-------squared error: 3.9269 parameter: [18.39441411  0.86776409 -1.7762230
7 -0.18231955]
Round1698-------squared error: 3.9268 parameter: [18.39443204  0.86758423 -1.7764097
7 -0.18232058]
Round1699-------squared error: 3.9268 parameter: [18.39444988  0.86740453 -1.7765962
6 -0.18232155]
Round1700-------squared error: 3.9268 parameter: [18.39446763  0.86722498 -1.7767825
4 -0.18232246]
Round1701-------squared error: 3.9268 parameter: [18.3944853   0.86704559 -1.7769686
2 -0.18232331]
Round1702-------squared error: 3.9267 parameter: [18.39450287  0.86686635 -1.7771544
8 -0.1823241 ]
Round1703-------squared error: 3.9267 parameter: [18.39452036  0.86668727 -1.7773401
3 -0.18232484]
Round1704-------squared error: 3.9267 parameter: [18.39453775  0.86650834 -1.7775255
8 -0.18232551]
Round1705-------squared error: 3.9267 parameter: [18.39455507  0.86632957 -1.7777108
1 -0.18232613]
Round1706-------squared error: 3.9266 parameter: [18.39457229  0.86615094 -1.7778958
4 -0.18232669]
Round1707-------squared error: 3.9266 parameter: [18.39458943  0.86597248 -1.7780806
6 -0.18232719]
Round1708-------squared error: 3.9266 parameter: [18.39460648  0.86579417 -1.7782652
8 -0.18232763]
Round1709-------squared error: 3.9265 parameter: [18.39462345  0.86561601 -1.7784496
8 -0.18232802]
Round1710-------squared error: 3.9265 parameter: [18.39464033  0.865438   -1.7786338
8 -0.18232834]
Round1711-------squared error: 3.9265 parameter: [18.39465713  0.86526015 -1.7788178
7 -0.18232862]
Round1712-------squared error: 3.9265 parameter: [18.39467384  0.86508245 -1.7790016
6 -0.18232883]
Round1713-------squared error: 3.9264 parameter: [18.39469048  0.86490491 -1.7791852
4 -0.18232899]
Round1714-------squared error: 3.9264 parameter: [18.39470702  0.86472752 -1.7793686
2 -0.18232909]
Round1715-------squared error: 3.9264 parameter: [18.39472349  0.86455028 -1.7795517
9 -0.18232913]
Round1716-------squared error: 3.9264 parameter: [18.39473987  0.8643732  -1.7797347
5 -0.18232912]
Round1717-------squared error: 3.9263 parameter: [18.39475617  0.86419626 -1.7799175
1 -0.18232905]
Round1718-------squared error: 3.9263 parameter: [18.39477239  0.86401949 -1.7801000
6 -0.18232893]
Round1719-------squared error: 3.9263 parameter: [18.39478853  0.86384286 -1.7802824
1 -0.18232875]
Round1720-------squared error: 3.9263 parameter: [18.39480459  0.86366639 -1.7804645
6 -0.18232852]
Round1721-------squared error: 3.9262 parameter: [18.39482056  0.86349007 -1.7806465
-0.18232823]
Round1722-------squared error: 3.9262 parameter: [18.39483646  0.8633139  -1.7808282
4 -0.18232788]
Round1723-------squared error: 3.9262 parameter: [18.39485228  0.86313788 -1.7810097
8 -0.18232749]
Round1724-------squared error: 3.9262 parameter: [18.39486802  0.86296202 -1.7811911
1 -0.18232704]
Round1725-------squared error: 3.9261 parameter: [18.39488368  0.86278631 -1.7813722
4 -0.18232653]
Round1726-------squared error: 3.9261 parameter: [18.39489926  0.86261075 -1.7815531
7 -0.18232597]
Round1727-------squared error: 3.9261 parameter: [18.39491476  0.86243535 -1.7817338
9 -0.18232536]
Round1728-------squared error: 3.9261 parameter: [18.39493019  0.86226009 -1.7819144
2 -0.18232469]
```

```
Round1729-------squared error: 3.9260 parameter: [18.39494554  0.86208499 -1.7820947
4 -0.18232397]
Round1730-------squared error: 3.9260 parameter: [18.39496081  0.86191004 -1.7822748
6 -0.18232319]
Round1731-------squared error: 3.9260 parameter: [18.394976    0.86173524 -1.7824547
8 -0.18232237]
Round1732-------squared error: 3.9260 parameter: [18.39499112  0.86156059 -1.7826345
-0.18232149]
Round1733-------squared error: 3.9259 parameter: [18.39500617  0.8613861  -1.7828140
2 -0.18232056]
Round1734-------squared error: 3.9259 parameter: [18.39502114  0.86121176 -1.7829933
4 -0.18231958]
Round1735-------squared error: 3.9259 parameter: [18.39503603  0.86103756 -1.7831724
5 -0.18231854]
Round1736-------squared error: 3.9259 parameter: [18.39505085  0.86086352 -1.7833513
7 -0.18231745]
Round1737-------squared error: 3.9258 parameter: [18.3950656   0.86068963 -1.7835300
9 -0.18231631]
Round1738-------squared error: 3.9258 parameter: [18.39508027  0.86051589 -1.7837086
1 -0.18231512]
Round1739-------squared error: 3.9258 parameter: [18.39509487  0.8603423  -1.7838869
4 -0.18231388]
Round1740-------squared error: 3.9258 parameter: [18.39510939  0.86016886 -1.7840650
6 -0.18231259]
Round1741-------squared error: 3.9257 parameter: [18.39512385  0.85999558 -1.7842429
8 -0.18231125]
Round1742-------squared error: 3.9257 parameter: [18.39513823  0.85982244 -1.7844207
1 -0.18230985]
Round1743-------squared error: 3.9257 parameter: [18.39515254  0.85964946 -1.7845982
4 -0.18230841]
Round1744-------squared error: 3.9257 parameter: [18.39516677  0.85947662 -1.7847755
7 -0.18230692]
Round1745-------squared error: 3.9256 parameter: [18.39518094  0.85930394 -1.7849527
1 -0.18230537]
Round1746-------squared error: 3.9256 parameter: [18.39519504  0.8591314  -1.7851296
4 -0.18230378]
Round1747-------squared error: 3.9256 parameter: [18.39520906  0.85895902 -1.7853063
8 -0.18230213]
Round1748-------squared error: 3.9256 parameter: [18.39522302  0.85878678 -1.7854829
3 -0.18230044]
Round1749-------squared error: 3.9255 parameter: [18.3952369   0.8586147  -1.7856592
8 -0.1822987 ]
Round1750-------squared error: 3.9255 parameter: [18.39525072  0.85844276 -1.7858354
3 -0.18229691]
Round1751-------squared error: 3.9255 parameter: [18.39526446  0.85827098 -1.7860113
9 -0.18229507]
Round1752-------squared error: 3.9255 parameter: [18.39527814  0.85809934 -1.7861871
5 -0.18229318]
Round1753-------squared error: 3.9254 parameter: [18.39529175  0.85792786 -1.7863627
1 -0.18229124]
Round1754-------squared error: 3.9254 parameter: [18.39530529  0.85775652 -1.7865380
8 -0.18228926]
Round1755-------squared error: 3.9254 parameter: [18.39531876  0.85758533 -1.7867132
6 -0.18228722]
Round1756-------squared error: 3.9254 parameter: [18.39533217  0.8574143  -1.7868882
4 -0.18228514]
Round1757-------squared error: 3.9253 parameter: [18.39534551  0.85724341 -1.7870630
3 -0.18228301]
Round1758-------squared error: 3.9253 parameter: [18.39535878  0.85707267 -1.7872376
3 -0.18228084]
Round1759-------squared error: 3.9253 parameter: [18.39537199  0.85690208 -1.7874120
3 -0.18227862]
Round1760-------squared error: 3.9253 parameter: [18.39538513  0.85673164 -1.7875862
4 -0.18227635]
```

```
Round1761-------squared error: 3.9252 parameter: [18.3953982   0.85656134 -1.7877602
5 -0.18227403]
Round1762-------squared error: 3.9252 parameter: [18.39541121  0.8563912  -1.7879340
8 -0.18227166]
Round1763-------squared error: 3.9252 parameter: [18.39542416  0.85622121 -1.7881077
1 -0.18226925]
Round1764-------squared error: 3.9252 parameter: [18.39543703  0.85605136 -1.7882811
4 -0.1822668 ]
Round1765-------squared error: 3.9251 parameter: [18.39544985  0.85588166 -1.7884543
9 -0.1822643 ]
Round1766-------squared error: 3.9251 parameter: [18.3954626   0.85571211 -1.7886274
4 -0.18226175]
Round1767-------squared error: 3.9251 parameter: [18.39547529  0.85554271 -1.7888003
1 -0.18225915]
Round1768-------squared error: 3.9251 parameter: [18.39548791  0.85537345 -1.7889729
8 -0.18225651]
Round1769-------squared error: 3.9251 parameter: [18.39550047  0.85520435 -1.7891454
6 -0.18225383]
Round1770-------squared error: 3.9250 parameter: [18.39551297  0.85503539 -1.7893177
5 -0.1822511 ]
Round1771-------squared error: 3.9250 parameter: [18.3955254   0.85486658 -1.7894898
5 -0.18224832]
Round1772-------squared error: 3.9250 parameter: [18.39553778  0.85469792 -1.7896617
6 -0.1822455 ]
Round1773-------squared error: 3.9250 parameter: [18.39555009  0.8545294  -1.7898334
8 -0.18224264]
Round1774-------squared error: 3.9249 parameter: [18.39556234  0.85436103 -1.7900050
1 -0.18223973]
Round1775-------squared error: 3.9249 parameter: [18.39557453  0.85419281 -1.7901763
5 -0.18223677]
Round1776-------squared error: 3.9249 parameter: [18.39558665  0.85402474 -1.7903475
-0.18223377]
Round1777-------squared error: 3.9249 parameter: [18.39559872  0.85385682 -1.7905184
6 -0.18223073]
Round1778-------squared error: 3.9248 parameter: [18.39561073  0.85368904 -1.7906892
3 -0.18222765]
Round1779-------squared error: 3.9248 parameter: [18.39562267  0.85352141 -1.7908598
2 -0.18222452]
Round1780-------squared error: 3.9248 parameter: [18.39563456  0.85335392 -1.7910302
2 -0.18222135]
Round1781-------squared error: 3.9248 parameter: [18.39564639  0.85318658 -1.7912004
2 -0.18221813]
Round1782-------squared error: 3.9248 parameter: [18.39565815  0.85301939 -1.7913704
5 -0.18221487]
Round1783-------squared error: 3.9247 parameter: [18.39566986  0.85285235 -1.7915402
8 -0.18221157]
Round1784-------squared error: 3.9247 parameter: [18.39568151  0.85268545 -1.7917099
3 -0.18220823]
Round1785-------squared error: 3.9247 parameter: [18.39569311  0.8525187  -1.7918793
9 -0.18220484]
Round1786-------squared error: 3.9247 parameter: [18.39570464  0.85235209 -1.7920486
6 -0.18220141]
Round1787-------squared error: 3.9246 parameter: [18.39571612  0.85218564 -1.7922177
5 -0.18219794]
Round1788-------squared error: 3.9246 parameter: [18.39572754  0.85201932 -1.7923866
5 -0.18219443]
Round1789-------squared error: 3.9246 parameter: [18.3957389   0.85185316 -1.7925553
7 -0.18219087]
Round1790-------squared error: 3.9246 parameter: [18.39575021  0.85168713 -1.7927239
-0.18218727]
Round1791-------squared error: 3.9246 parameter: [18.39576145  0.85152126 -1.7928922
4 -0.18218364]
Round1792-------squared error: 3.9245 parameter: [18.39577265  0.85135553 -1.7930604
-0.18217996]
```

```
Round1793-------squared error: 3.9245 parameter: [18.39578378  0.85118995 -1.7932283
7 -0.18217624]
Round1794-------squared error: 3.9245 parameter: [18.39579486  0.85102451 -1.7933961
6 -0.18217248]
Round1795-------squared error: 3.9245 parameter: [18.39580589  0.85085922 -1.7935637
7 -0.18216867]
Round1796-------squared error: 3.9244 parameter: [18.39581686  0.85069407 -1.7937311
9 -0.18216483]
Round1797-------squared error: 3.9244 parameter: [18.39582778  0.85052907 -1.7938984
3 -0.18216095]
Round1798-------squared error: 3.9244 parameter: [18.39583864  0.85036421 -1.7940654
8 -0.18215702]
Round1799-------squared error: 3.9244 parameter: [18.39584944  0.8501995  -1.7942323
5 -0.18215306]
Round1800-------squared error: 3.9244 parameter: [18.3958602   0.85003493 -1.7943990
4 -0.18214906]
Round1801-------squared error: 3.9243 parameter: [18.3958709   0.84987051 -1.7945655
4 -0.18214501]
Round1802-------squared error: 3.9243 parameter: [18.39588154  0.84970623 -1.7947318
6 -0.18214093]
Round1803-------squared error: 3.9243 parameter: [18.39589213  0.8495421  -1.794898
-0.18213681]
Round1804-------squared error: 3.9243 parameter: [18.39590267  0.84937811 -1.7950639
6 -0.18213265]
Round1805-------squared error: 3.9242 parameter: [18.39591316  0.84921426 -1.7952297
3 -0.18212845]
Round1806-------squared error: 3.9242 parameter: [18.39592359  0.84905056 -1.7953953
2 -0.18212421]
Round1807-------squared error: 3.9242 parameter: [18.39593398  0.84888701 -1.7955607
3 -0.18211993]
Round1808-------squared error: 3.9242 parameter: [18.39594431  0.8487236  -1.7957259
6 -0.18211561]
Round1809-------squared error: 3.9242 parameter: [18.39595459  0.84856033 -1.7958910
1 -0.18211126]
Round1810-------squared error: 3.9241 parameter: [18.39596481  0.84839721 -1.7960558
8 -0.18210686]
Round1811-------squared error: 3.9241 parameter: [18.39597499  0.84823423 -1.7962205
7 -0.18210243]
Round1812-------squared error: 3.9241 parameter: [18.39598511  0.84807139 -1.7963850
7 -0.18209796]
Round1813-------squared error: 3.9241 parameter: [18.39599519  0.8479087  -1.7965494
-0.18209345]
Round1814-------squared error: 3.9240 parameter: [18.39600521  0.84774615 -1.7967135
5 -0.18208891]
Round1815-------squared error: 3.9240 parameter: [18.39601519  0.84758374 -1.7968775
2 -0.18208432]
Round1816-------squared error: 3.9240 parameter: [18.39602511  0.84742148 -1.7970413
-0.1820797 ]
Round1817-------squared error: 3.9240 parameter: [18.39603498  0.84725936 -1.7972049
1 -0.18207505]
Round1818-------squared error: 3.9240 parameter: [18.39604481  0.84709739 -1.7973683
4 -0.18207035]
Round1819-------squared error: 3.9239 parameter: [18.39605459  0.84693556 -1.7975316
-0.18206562]
Round1820-------squared error: 3.9239 parameter: [18.39606431  0.84677387 -1.7976946
7 -0.18206085]
Round1821-------squared error: 3.9239 parameter: [18.39607399  0.84661232 -1.7978575
6 -0.18205605]
Round1822-------squared error: 3.9239 parameter: [18.39608362  0.84645092 -1.7980202
8 -0.18205121]
Round1823-------squared error: 3.9239 parameter: [18.3960932   0.84628965 -1.7981828
2 -0.18204633]
Round1824-------squared error: 3.9238 parameter: [18.39610274  0.84612853 -1.7983451
8 -0.18204142]
```

```
Round1825-------squared error: 3.9238 parameter: [18.39611222  0.84596756 -1.7985073
7 -0.18203647]
Round1826-------squared error: 3.9238 parameter: [18.39612166  0.84580672 -1.7986693
7 -0.18203148]
Round1827-------squared error: 3.9238 parameter: [18.39613105  0.84564603 -1.7988312
-0.18202646]
Round1828-------squared error: 3.9238 parameter: [18.3961404   0.84548548 -1.7989928
6 -0.18202141]
Round1829-------squared error: 3.9237 parameter: [18.3961497   0.84532507 -1.7991543
4 -0.18201632]
Round1830-------squared error: 3.9237 parameter: [18.39615895  0.84516481 -1.7993156
4 -0.18201119]
Round1831-------squared error: 3.9237 parameter: [18.39616815  0.84500469 -1.7994767
6 -0.18200603]
Round1832-------squared error: 3.9237 parameter: [18.39617731  0.8448447  -1.7996377
1 -0.18200083]
Round1833-------squared error: 3.9237 parameter: [18.39618643  0.84468486 -1.7997984
9 -0.1819956 ]
Round1834-------squared error: 3.9236 parameter: [18.39619549  0.84452516 -1.7999590
9 -0.18199033]
Round1835-------squared error: 3.9236 parameter: [18.39620452  0.84436561 -1.8001195
1 -0.18198503]
Round1836-------squared error: 3.9236 parameter: [18.39621349  0.84420619 -1.8002797
6 -0.1819797 ]
Round1837-------squared error: 3.9236 parameter: [18.39622243  0.84404691 -1.8004398
4 -0.18197433]
Round1838-------squared error: 3.9235 parameter: [18.39623131  0.84388778 -1.8005997
4 -0.18196893]
Round1839-------squared error: 3.9235 parameter: [18.39624016  0.84372879 -1.8007594
7 -0.18196349]
Round1840-------squared error: 3.9235 parameter: [18.39624896  0.84356994 -1.8009190
2 -0.18195802]
Round1841-------squared error: 3.9235 parameter: [18.39625771  0.84341122 -1.8010784
-0.18195252]
Round1842-------squared error: 3.9235 parameter: [18.39626642  0.84325265 -1.8012376
-0.18194698]
Round1843-------squared error: 3.9234 parameter: [18.39627509  0.84309422 -1.8013966
4 -0.18194141]
Round1844-------squared error: 3.9234 parameter: [18.39628372  0.84293593 -1.8015555
-0.18193581]
Round1845-------squared error: 3.9234 parameter: [18.3962923   0.84277779 -1.8017141
9 -0.18193017]
Round1846-------squared error: 3.9234 parameter: [18.39630084  0.84261978 -1.8018727
-0.18192451]
Round1847-------squared error: 3.9234 parameter: [18.39630933  0.84246191 -1.8020310
4 -0.1819188 ]
Round1848-------squared error: 3.9233 parameter: [18.39631778  0.84230418 -1.8021892
1 -0.18191307]
Round1849-------squared error: 3.9233 parameter: [18.3963262   0.84214659 -1.8023472
1 -0.1819073 ]
Round1850-------squared error: 3.9233 parameter: [18.39633456  0.84198914 -1.8025050
4 -0.1819015 ]
Round1851-------squared error: 3.9233 parameter: [18.39634289  0.84183184 -1.8026627
-0.18189567]
Round1852-------squared error: 3.9233 parameter: [18.39635118  0.84167467 -1.8028201
8 -0.18188981]
Round1853-------squared error: 3.9232 parameter: [18.39635942  0.84151764 -1.8029774
9 -0.18188392]
Round1854-------squared error: 3.9232 parameter: [18.39636762  0.84136075 -1.8031346
4 -0.18187799]
Round1855-------squared error: 3.9232 parameter: [18.39637579  0.841204   -1.8032916
1 -0.18187203]
Round1856-------squared error: 3.9232 parameter: [18.39638391  0.84104739 -1.8034484
1 -0.18186604]
```

```
Round1857-------squared error: 3.9232 parameter: [18.39639199  0.84089092 -1.8036050
4 -0.18186002]
Round1858-------squared error: 3.9231 parameter: [18.39640003  0.84073458 -1.8037615
1 -0.18185397]
Round1859-------squared error: 3.9231 parameter: [18.39640803  0.84057839 -1.8039178
-0.18184789]
Round1860-------squared error: 3.9231 parameter: [18.39641599  0.84042234 -1.8040739
2 -0.18184178]
Round1861-------squared error: 3.9231 parameter: [18.39642391  0.84026642 -1.8042298
8 -0.18183563]
Round1862-------squared error: 3.9231 parameter: [18.39643179  0.84011064 -1.8043856
6 -0.18182946]
Round1863-------squared error: 3.9231 parameter: [18.39643963  0.83995501 -1.8045412
8 -0.18182325]
Round1864-------squared error: 3.9230 parameter: [18.39644743  0.83979951 -1.8046967
3 -0.18181702]
Round1865-------squared error: 3.9230 parameter: [18.39645519  0.83964415 -1.8048520
1 -0.18181075]
Round1866-------squared error: 3.9230 parameter: [18.39646292  0.83948892 -1.8050071
2 -0.18180446]
Round1867-------squared error: 3.9230 parameter: [18.3964706   0.83933384 -1.8051620
7 -0.18179813]
Round1868-------squared error: 3.9230 parameter: [18.39647825  0.83917889 -1.8053168
4 -0.18179178]
Round1869-------squared error: 3.9229 parameter: [18.39648586  0.83902408 -1.8054714
5 -0.18178539]
Round1870-------squared error: 3.9229 parameter: [18.39649343  0.83886941 -1.8056258
9 -0.18177898]
Round1871-------squared error: 3.9229 parameter: [18.39650096  0.83871488 -1.8057801
7 -0.18177253]
Round1872-------squared error: 3.9229 parameter: [18.39650846  0.83856048 -1.8059342
8 -0.18176606]
Round1873-------squared error: 3.9229 parameter: [18.39651592  0.83840623 -1.8060882
2 -0.18175956]
Round1874-------squared error: 3.9228 parameter: [18.39652334  0.83825211 -1.8062419
9 -0.18175303]
Round1875-------squared error: 3.9228 parameter: [18.39653072  0.83809812 -1.8063956
-0.18174647]
Round1876-------squared error: 3.9228 parameter: [18.39653807  0.83794428 -1.8065490
4 -0.18173988]
Round1877-------squared error: 3.9228 parameter: [18.39654538  0.83779057 -1.8067023
2 -0.18173326]
Round1878-------squared error: 3.9228 parameter: [18.39655265  0.837637   -1.8068554
3 -0.18172662]
Round1879-------squared error: 3.9227 parameter: [18.39655989  0.83748357 -1.8070083
8 -0.18171994]
Round1880-------squared error: 3.9227 parameter: [18.39656709  0.83733027 -1.8071611
6 -0.18171324]
Round1881-------squared error: 3.9227 parameter: [18.39657425  0.83717711 -1.8073137
8 -0.18170651]
Round1882-------squared error: 3.9227 parameter: [18.39658138  0.83702409 -1.8074662
3 -0.18169976]
Round1883-------squared error: 3.9227 parameter: [18.39658847  0.8368712  -1.8076185
2 -0.18169297]
Round1884-------squared error: 3.9227 parameter: [18.39659553  0.83671845 -1.8077706
4 -0.18168616]
Round1885-------squared error: 3.9226 parameter: [18.39660255  0.83656584 -1.8079226
-0.18167932]
Round1886-------squared error: 3.9226 parameter: [18.39660954  0.83641336 -1.8080743
9 -0.18167245]
Round1887-------squared error: 3.9226 parameter: [18.39661649  0.83626102 -1.8082260
3 -0.18166555]
Round1888-------squared error: 3.9226 parameter: [18.39662341  0.83610881 -1.8083774
9 -0.18165863]
```

```
Round1889-------squared error: 3.9226 parameter: [18.39663029  0.83595674 -1.8085288
-0.18165168]
Round1890-------squared error: 3.9225 parameter: [18.39663714  0.83580481 -1.8086799
4 -0.1816447 ]
Round1891-------squared error: 3.9225 parameter: [18.39664396  0.83565301 -1.8088309
2 -0.1816377 ]
Round1892-------squared error: 3.9225 parameter: [18.39665074  0.83550135 -1.8089817
4 -0.18163067]
Round1893-------squared error: 3.9225 parameter: [18.39665748  0.83534983 -1.8091323
9 -0.18162361]
Round1894-------squared error: 3.9225 parameter: [18.39666419  0.83519843 -1.8092828
8 -0.18161653]
Round1895-------squared error: 3.9225 parameter: [18.39667087  0.83504718 -1.8094332
2 -0.18160942]
Round1896-------squared error: 3.9224 parameter: [18.39667752  0.83489606 -1.8095833
8 -0.18160229]
Round1897-------squared error: 3.9224 parameter: [18.39668413  0.83474508 -1.8097333
9 -0.18159512]
Round1898-------squared error: 3.9224 parameter: [18.39669071  0.83459423 -1.8098832
4 -0.18158794]
Round1899-------squared error: 3.9224 parameter: [18.39669726  0.83444351 -1.8100329
2 -0.18158072]
Round1900-------squared error: 3.9224 parameter: [18.39670377  0.83429293 -1.8101824
4 -0.18157349]
Round1901-------squared error: 3.9223 parameter: [18.39671025  0.83414249 -1.8103318
1 -0.18156622]
Round1902-------squared error: 3.9223 parameter: [18.3967167   0.83399218 -1.8104810
1 -0.18155893]
Round1903-------squared error: 3.9223 parameter: [18.39672312  0.833842   -1.8106300
5 -0.18155162]
Round1904-------squared error: 3.9223 parameter: [18.3967295   0.83369196 -1.8107789
3 -0.18154428]
Round1905-------squared error: 3.9223 parameter: [18.39673585  0.83354206 -1.8109276
6 -0.18153691]
Round1906-------squared error: 3.9223 parameter: [18.39674217  0.83339228 -1.8110762
2 -0.18152952]
Round1907-------squared error: 3.9222 parameter: [18.39674846  0.83324265 -1.8112246
2 -0.1815221 ]
Round1908-------squared error: 3.9222 parameter: [18.39675472  0.83309314 -1.8113728
7 -0.18151466]
Round1909-------squared error: 3.9222 parameter: [18.39676095  0.83294377 -1.8115209
5 -0.1815072 ]
Round1910-------squared error: 3.9222 parameter: [18.39676714  0.83279454 -1.8116688
8 -0.18149971]
Round1911-------squared error: 3.9222 parameter: [18.39677331  0.83264544 -1.8118166
4 -0.1814922 ]
Round1912-------squared error: 3.9221 parameter: [18.39677944  0.83249647 -1.8119642
5 -0.18148466]
Round1913-------squared error: 3.9221 parameter: [18.39678554  0.83234763 -1.8121117
-0.1814771 ]
Round1914-------squared error: 3.9221 parameter: [18.39679162  0.83219893 -1.8122589
9 -0.18146951]
Round1915-------squared error: 3.9221 parameter: [18.39679766  0.83205037 -1.8124061
3 -0.1814619 ]
Round1916-------squared error: 3.9221 parameter: [18.39680367  0.83190193 -1.8125531
-0.18145427]
Round1917-------squared error: 3.9221 parameter: [18.39680965  0.83175363 -1.8126999
2 -0.18144661]
Round1918-------squared error: 3.9220 parameter: [18.3968156   0.83160546 -1.8128465
8 -0.18143893]
Round1919-------squared error: 3.9220 parameter: [18.39682153  0.83145743 -1.8129930
9 -0.18143122]
Round1920-------squared error: 3.9220 parameter: [18.39682742  0.83130953 -1.8131394
4 -0.1814235 ]
```

```
Round1921-------squared error: 3.9220 parameter: [18.39683328  0.83116176 -1.8132856
3 -0.18141575]
Round1922-------squared error: 3.9220 parameter: [18.39683911  0.83101412 -1.8134316
6 -0.18140797]
Round1923-------squared error: 3.9220 parameter: [18.39684492  0.83086662 -1.8135775
4 -0.18140017]
Round1924-------squared error: 3.9219 parameter: [18.39685069  0.83071925 -1.8137232
6 -0.18139235]
Round1925-------squared error: 3.9219 parameter: [18.39685644  0.83057201 -1.8138688
3 -0.18138451]
Round1926-------squared error: 3.9219 parameter: [18.39686216  0.8304249  -1.8140142
4 -0.18137665]
Round1927-------squared error: 3.9219 parameter: [18.39686785  0.83027793 -1.8141594
9 -0.18136876]
Round1928-------squared error: 3.9219 parameter: [18.39687351  0.83013108 -1.8143045
9 -0.18136085]
Round1929-------squared error: 3.9219 parameter: [18.39687914  0.82998437 -1.8144495
4 -0.18135291]
Round1930-------squared error: 3.9218 parameter: [18.39688474  0.8298378  -1.8145943
3 -0.18134496]
Round1931-------squared error: 3.9218 parameter: [18.39689032  0.82969135 -1.8147389
6 -0.18133698]
Round1932-------squared error: 3.9218 parameter: [18.39689587  0.82954504 -1.8148834
4 -0.18132898]
Round1933-------squared error: 3.9218 parameter: [18.39690139  0.82939885 -1.8150277
7 -0.18132096]
Round1934-------squared error: 3.9218 parameter: [18.39690688  0.8292528  -1.8151719
4 -0.18131292]
Round1935-------squared error: 3.9218 parameter: [18.39691235  0.82910688 -1.8153159
5 -0.18130485]
Round1936-------squared error: 3.9217 parameter: [18.39691779  0.82896109 -1.8154598
2 -0.18129677]
Round1937-------squared error: 3.9217 parameter: [18.3969232   0.82881543 -1.8156035
3 -0.18128866]
Round1938-------squared error: 3.9217 parameter: [18.39692858  0.82866991 -1.8157470
9 -0.18128053]
Round1939-------squared error: 3.9217 parameter: [18.39693394  0.82852451 -1.8158904
9 -0.18127238]
Round1940-------squared error: 3.9217 parameter: [18.39693927  0.82837925 -1.8160337
4 -0.18126421]
Round1941-------squared error: 3.9217 parameter: [18.39694457  0.82823412 -1.8161768
4 -0.18125601]
Round1942-------squared error: 3.9216 parameter: [18.39694985  0.82808911 -1.8163197
8 -0.1812478 ]
Round1943-------squared error: 3.9216 parameter: [18.3969551   0.82794424 -1.8164625
7 -0.18123956]
Round1944-------squared error: 3.9216 parameter: [18.39696033  0.8277995  -1.8166052
1 -0.18123131]
Round1945-------squared error: 3.9216 parameter: [18.39696552  0.82765489 -1.8167477
-0.18122303]
Round1946-------squared error: 3.9216 parameter: [18.3969707   0.82751041 -1.8168900
4 -0.18121474]
Round1947-------squared error: 3.9216 parameter: [18.39697584  0.82736606 -1.8170322
2 -0.18120642]
Round1948-------squared error: 3.9215 parameter: [18.39698096  0.82722184 -1.8171742
6 -0.18119808]
Round1949-------squared error: 3.9215 parameter: [18.39698606  0.82707775 -1.8173161
4 -0.18118972]
Round1950-------squared error: 3.9215 parameter: [18.39699113  0.82693379 -1.8174578
7 -0.18118135]
Round1951-------squared error: 3.9215 parameter: [18.39699617  0.82678995 -1.8175994
5 -0.18117295]
Round1952-------squared error: 3.9215 parameter: [18.39700119  0.82664625 -1.8177408
8 -0.18116453]
```

```
Round1953-------squared error: 3.9215 parameter: [18.39700619  0.82650268 -1.8178821
6 -0.18115609]
Round1954-------squared error: 3.9214 parameter: [18.39701116  0.82635924 -1.8180232
9 -0.18114764]
Round1955-------squared error: 3.9214 parameter: [18.3970161   0.82621593 -1.8181642
6 -0.18113916]
Round1956-------squared error: 3.9214 parameter: [18.39702102  0.82607275 -1.8183050
9 -0.18113066]
Round1957-------squared error: 3.9214 parameter: [18.39702591  0.82592969 -1.8184457
7 -0.18112215]
Round1958-------squared error: 3.9214 parameter: [18.39703078  0.82578677 -1.8185863
-0.18111361]
Round1959-------squared error: 3.9214 parameter: [18.39703563  0.82564397 -1.8187266
8 -0.18110506]
Round1960-------squared error: 3.9213 parameter: [18.39704045  0.82550131 -1.8188669
1 -0.18109648]
Round1961-------squared error: 3.9213 parameter: [18.39704525  0.82535877 -1.8190069
9 -0.18108789]
Round1962-------squared error: 3.9213 parameter: [18.39705002  0.82521636 -1.8191469
2 -0.18107928]
Round1963-------squared error: 3.9213 parameter: [18.39705477  0.82507408 -1.8192867
-0.18107065]
Round1964-------squared error: 3.9213 parameter: [18.3970595   0.82493193 -1.8194263
4 -0.181062  ]
Round1965-------squared error: 3.9213 parameter: [18.3970642   0.8247899  -1.8195658
2 -0.18105333]
Round1966-------squared error: 3.9212 parameter: [18.39706888  0.82464801 -1.8197051
6 -0.18104465]
Round1967-------squared error: 3.9212 parameter: [18.39707354  0.82450624 -1.8198443
5 -0.18103594]
Round1968-------squared error: 3.9212 parameter: [18.39707817  0.8243646  -1.8199833
9 -0.18102722]
Round1969-------squared error: 3.9212 parameter: [18.39708278  0.82422309 -1.8201222
9 -0.18101848]
Round1970-------squared error: 3.9212 parameter: [18.39708736  0.82408171 -1.8202610
4 -0.18100972]
Round1971-------squared error: 3.9212 parameter: [18.39709193  0.82394046 -1.8203996
4 -0.18100094]
Round1972-------squared error: 3.9212 parameter: [18.39709647  0.82379933 -1.8205380
9 -0.18099215]
Round1973-------squared error: 3.9211 parameter: [18.39710099  0.82365833 -1.8206764
-0.18098333]
Round1974-------squared error: 3.9211 parameter: [18.39710548  0.82351746 -1.8208145
6 -0.1809745 ]
Round1975-------squared error: 3.9211 parameter: [18.39710995  0.82337671 -1.8209525
7 -0.18096565]
Round1976-------squared error: 3.9211 parameter: [18.3971144   0.8232361  -1.8210904
3 -0.18095679]
Round1977-------squared error: 3.9211 parameter: [18.39711883  0.82309561 -1.8212281
6 -0.1809479 ]
Round1978-------squared error: 3.9211 parameter: [18.39712324  0.82295524 -1.8213657
3 -0.180939  ]
Round1979-------squared error: 3.9210 parameter: [18.39712762  0.82281501 -1.8215031
6 -0.18093008]
Round1980-------squared error: 3.9210 parameter: [18.39713198  0.8226749  -1.8216404
4 -0.18092115]
Round1981-------squared error: 3.9210 parameter: [18.39713632  0.82253492 -1.8217775
8 -0.18091219]
Round1982-------squared error: 3.9210 parameter: [18.39714064  0.82239506 -1.8219145
7 -0.18090322]
Round1983-------squared error: 3.9210 parameter: [18.39714494  0.82225534 -1.8220514
2 -0.18089424]
Round1984-------squared error: 3.9210 parameter: [18.39714921  0.82211573 -1.8221881
2 -0.18088523]
```

```
Round1985-------squared error: 3.9209 parameter: [18.39715347  0.82197626 -1.8223246
8 -0.18087621]
Round1986-------squared error: 3.9209 parameter: [18.3971577   0.82183691 -1.8224610
9 -0.18086718]
Round1987-------squared error: 3.9209 parameter: [18.39716191  0.82169769 -1.8225973
6 -0.18085812]
Round1988-------squared error: 3.9209 parameter: [18.3971661   0.82155859 -1.8227334
9 -0.18084905]
Round1989-------squared error: 3.9209 parameter: [18.39717027  0.82141962 -1.8228694
7 -0.18083997]
Round1990-------squared error: 3.9209 parameter: [18.39717442  0.82128078 -1.8230053
-0.18083086]
Round1991-------squared error: 3.9209 parameter: [18.39717855  0.82114206 -1.823141
-0.18082174]
Round1992-------squared error: 3.9208 parameter: [18.39718266  0.82100347 -1.8232765
5 -0.18081261]
Round1993-------squared error: 3.9208 parameter: [18.39718674  0.820865   -1.8234119
5 -0.18080346]
Round1994-------squared error: 3.9208 parameter: [18.39719081  0.82072666 -1.8235472
2 -0.18079429]
Round1995-------squared error: 3.9208 parameter: [18.39719485  0.82058844 -1.8236823
4 -0.18078511]
Round1996-------squared error: 3.9208 parameter: [18.39719888  0.82045035 -1.8238173
1 -0.18077591]
Round1997-------squared error: 3.9208 parameter: [18.39720289  0.82031239 -1.8239521
5 -0.18076669]
Round1998-------squared error: 3.9208 parameter: [18.39720687  0.82017455 -1.8240868
4 -0.18075746]
Round1999-------squared error: 3.9207 parameter: [18.39721084  0.82003683 -1.8242213
9 -0.18074822]
Round2000-------squared error: 3.9207 parameter: [18.39721478  0.81989924 -1.8243558
-0.18073895]
Round2001-------squared error: 3.9207 parameter: [18.39721871  0.81976178 -1.8244900
7 -0.18072968]
Round2002-------squared error: 3.9207 parameter: [18.39722262  0.81962444 -1.8246241
9 -0.18072039]
Round2003-------squared error: 3.9207 parameter: [18.3972265   0.81948722 -1.8247581
7 -0.18071108]
Round2004-------squared error: 3.9207 parameter: [18.39723037  0.81935013 -1.8248920
1 -0.18070176]
Round2005-------squared error: 3.9207 parameter: [18.39723422  0.81921317 -1.8250257
1 -0.18069242]
Round2006-------squared error: 3.9206 parameter: [18.39723805  0.81907632 -1.8251592
7 -0.18068307]
Round2007-------squared error: 3.9206 parameter: [18.39724186  0.81893961 -1.8252926
9 -0.1806737 ]
Round2008-------squared error: 3.9206 parameter: [18.39724565  0.81880301 -1.8254259
7 -0.18066432]
Round2009-------squared error: 3.9206 parameter: [18.39724942  0.81866654 -1.8255591
1 -0.18065492]
Round2010-------squared error: 3.9206 parameter: [18.39725317  0.8185302  -1.8256921
-0.18064551]
Round2011-------squared error: 3.9206 parameter: [18.39725691  0.81839398 -1.8258249
6 -0.18063609]
Round2012-------squared error: 3.9205 parameter: [18.39726062  0.81825788 -1.8259576
8 -0.18062665]
Round2013-------squared error: 3.9205 parameter: [18.39726432  0.81812191 -1.8260902
5 -0.18061719]
Round2014-------squared error: 3.9205 parameter: [18.397268    0.81798606 -1.8262226
9 -0.18060772]
Round2015-------squared error: 3.9205 parameter: [18.39727166  0.81785033 -1.8263549
9 -0.18059824]
Round2016-------squared error: 3.9205 parameter: [18.3972753   0.81771473 -1.8264871
5 -0.18058874]
```

```
Round2017-------squared error: 3.9205 parameter: [18.39727892  0.81757925 -1.8266191
7 -0.18057923]
Round2018-------squared error: 3.9205 parameter: [18.39728253  0.81744389 -1.8267510
5 -0.18056971]
Round2019-------squared error: 3.9204 parameter: [18.39728611  0.81730866 -1.8268827
9 -0.18056017]
Round2020-------squared error: 3.9204 parameter: [18.39728968  0.81717355 -1.8270143
9 -0.18055062]
Round2021-------squared error: 3.9204 parameter: [18.39729324  0.81703856 -1.8271458
5 -0.18054105]
Round2022-------squared error: 3.9204 parameter: [18.39729677  0.8169037  -1.8272771
8 -0.18053147]
Round2023-------squared error: 3.9204 parameter: [18.39730029  0.81676895 -1.8274083
7 -0.18052188]
Round2024-------squared error: 3.9204 parameter: [18.39730378  0.81663434 -1.8275394
2 -0.18051227]
Round2025-------squared error: 3.9204 parameter: [18.39730727  0.81649984 -1.8276703
3 -0.18050265]
Round2026-------squared error: 3.9203 parameter: [18.39731073  0.81636546 -1.8278011
-0.18049302]
Round2027-------squared error: 3.9203 parameter: [18.39731418  0.81623121 -1.8279317
4 -0.18048337]
Round2028-------squared error: 3.9203 parameter: [18.3973176   0.81609708 -1.8280622
4 -0.18047372]
Round2029-------squared error: 3.9203 parameter: [18.39732102  0.81596308 -1.8281926
-0.18046404]
Round2030-------squared error: 3.9203 parameter: [18.39732441  0.81582919 -1.8283228
2 -0.18045436]
Round2031-------squared error: 3.9203 parameter: [18.39732779  0.81569543 -1.8284529
1 -0.18044466]
Round2032-------squared error: 3.9203 parameter: [18.39733115  0.81556179 -1.8285828
6 -0.18043495]
Round2033-------squared error: 3.9203 parameter: [18.39733449  0.81542827 -1.8287126
8 -0.18042522]
Round2034-------squared error: 3.9202 parameter: [18.39733782  0.81529487 -1.8288423
6 -0.18041549]
Round2035-------squared error: 3.9202 parameter: [18.39734113  0.81516159 -1.8289719
-0.18040574]
Round2036-------squared error: 3.9202 parameter: [18.39734443  0.81502844 -1.8291013
1 -0.18039598]
Round2037-------squared error: 3.9202 parameter: [18.39734771  0.8148954  -1.8292305
8 -0.1803862 ]
Round2038-------squared error: 3.9202 parameter: [18.39735097  0.81476249 -1.8293597
1 -0.18037642]
Round2039-------squared error: 3.9202 parameter: [18.39735421  0.8146297  -1.8294887
1 -0.18036662]
Round2040-------squared error: 3.9202 parameter: [18.39735744  0.81449703 -1.8296175
7 -0.18035681]
Round2041-------squared error: 3.9201 parameter: [18.39736065  0.81436448 -1.8297463
-0.18034698]
Round2042-------squared error: 3.9201 parameter: [18.39736385  0.81423206 -1.8298749
-0.18033715]
Round2043-------squared error: 3.9201 parameter: [18.39736703  0.81409975 -1.8300033
6 -0.1803273 ]
Round2044-------squared error: 3.9201 parameter: [18.3973702   0.81396756 -1.8301316
8 -0.18031744]
Round2045-------squared error: 3.9201 parameter: [18.39737335  0.8138355  -1.8302598
7 -0.18030757]
Round2046-------squared error: 3.9201 parameter: [18.39737648  0.81370355 -1.8303879
3 -0.18029769]
Round2047-------squared error: 3.9201 parameter: [18.3973796   0.81357173 -1.8305158
5 -0.18028779]
Round2048-------squared error: 3.9200 parameter: [18.3973827   0.81344002 -1.8306436
3 -0.18027789]
```

```
Round2049-------squared error: 3.9200 parameter: [18.39738578  0.81330844 -1.8307712
9 -0.18026797]
Round2050-------squared error: 3.9200 parameter: [18.39738886  0.81317697 -1.8308988
1 -0.18025804]
Round2051-------squared error: 3.9200 parameter: [18.39739191  0.81304563 -1.8310261
9 -0.1802481 ]
Round2052-------squared error: 3.9200 parameter: [18.39739495  0.81291441 -1.8311534
5 -0.18023815]
Round2053-------squared error: 3.9200 parameter: [18.39739798  0.8127833  -1.8312805
6 -0.18022819]
Round2054-------squared error: 3.9200 parameter: [18.39740099  0.81265232 -1.8314075
5 -0.18021821]
Round2055-------squared error: 3.9200 parameter: [18.39740398  0.81252145 -1.8315344
-0.18020823]
Round2056-------squared error: 3.9199 parameter: [18.39740696  0.81239071 -1.8316611
2 -0.18019823]
Round2057-------squared error: 3.9199 parameter: [18.39740993  0.81226008 -1.8317877
1 -0.18018822]
Round2058-------squared error: 3.9199 parameter: [18.39741288  0.81212957 -1.8319141
7 -0.1801782 ]
Round2059-------squared error: 3.9199 parameter: [18.39741581  0.81199919 -1.8320404
9 -0.18016818]
Round2060-------squared error: 3.9199 parameter: [18.39741873  0.81186892 -1.8321666
8 -0.18015814]
Round2061-------squared error: 3.9199 parameter: [18.39742164  0.81173877 -1.8322927
4 -0.18014809]
Round2062-------squared error: 3.9199 parameter: [18.39742453  0.81160874 -1.8324186
7 -0.18013802]
Round2063-------squared error: 3.9198 parameter: [18.39742741  0.81147883 -1.8325444
6 -0.18012795]
Round2064-------squared error: 3.9198 parameter: [18.39743027  0.81134904 -1.8326701
3 -0.18011787]
Round2065-------squared error: 3.9198 parameter: [18.39743312  0.81121936 -1.8327956
6 -0.18010778]
Round2066-------squared error: 3.9198 parameter: [18.39743596  0.81108981 -1.8329210
6 -0.18009768]
Round2067-------squared error: 3.9198 parameter: [18.39743878  0.81096037 -1.8330463
3 -0.18008756]
Round2068-------squared error: 3.9198 parameter: [18.39744158  0.81083105 -1.8331714
7 -0.18007744]
Round2069-------squared error: 3.9198 parameter: [18.39744437  0.81070185 -1.8332964
8 -0.18006731]
Round2070-------squared error: 3.9198 parameter: [18.39744715  0.81057277 -1.8334213
6 -0.18005716]
Round2071-------squared error: 3.9197 parameter: [18.39744992  0.81044381 -1.8335461
-0.18004701]
Round2072-------squared error: 3.9197 parameter: [18.39745267  0.81031496 -1.8336707
2 -0.18003685]
Round2073-------squared error: 3.9197 parameter: [18.3974554   0.81018624 -1.8337952
1 -0.18002667]
Round2074-------squared error: 3.9197 parameter: [18.39745813  0.81005763 -1.8339195
7 -0.18001649]
Round2075-------squared error: 3.9197 parameter: [18.39746084  0.80992913 -1.8340437
9 -0.1800063 ]
Round2076-------squared error: 3.9197 parameter: [18.39746353  0.80980076 -1.8341678
9 -0.17999609]
Round2077-------squared error: 3.9197 parameter: [18.39746621  0.8096725  -1.8342918
6 -0.17998588]
Round2078-------squared error: 3.9197 parameter: [18.39746888  0.80954436 -1.8344157
-0.17997566]
Round2079-------squared error: 3.9196 parameter: [18.39747154  0.80941634 -1.8345394
1 -0.17996543]
Round2080-------squared error: 3.9196 parameter: [18.39747418  0.80928844 -1.8346629
9 -0.17995519]
```

```
Round2081-------squared error: 3.9196 parameter: [18.39747681  0.80916065 -1.8347864
4 -0.17994494]
Round2082-------squared error: 3.9196 parameter: [18.39747943  0.80903298 -1.8349097
7 -0.17993468]
Round2083-------squared error: 3.9196 parameter: [18.39748203  0.80890543 -1.8350329
6 -0.17992441]
Round2084-------squared error: 3.9196 parameter: [18.39748462  0.80877799 -1.8351560
3 -0.17991414]
Round2085-------squared error: 3.9196 parameter: [18.3974872   0.80865067 -1.8352789
6 -0.17990385]
Round2086-------squared error: 3.9196 parameter: [18.39748976  0.80852347 -1.8354017
7 -0.17989355]
Round2087-------squared error: 3.9195 parameter: [18.39749231  0.80839638 -1.8355244
6 -0.17988325]
Round2088-------squared error: 3.9195 parameter: [18.39749485  0.80826941 -1.8356470
1 -0.17987294]
Round2089-------squared error: 3.9195 parameter: [18.39749738  0.80814256 -1.8357694
4 -0.17986261]
Round2090-------squared error: 3.9195 parameter: [18.39749989  0.80801582 -1.8358917
4 -0.17985228]
Round2091-------squared error: 3.9195 parameter: [18.39750239  0.8078892  -1.8360139
1 -0.17984194]
Round2092-------squared error: 3.9195 parameter: [18.39750488  0.80776269 -1.8361359
5 -0.1798316 ]
Round2093-------squared error: 3.9195 parameter: [18.39750735  0.8076363  -1.8362578
7 -0.17982124]
Round2094-------squared error: 3.9195 parameter: [18.39750982  0.80751003 -1.8363796
6 -0.17981087]
Round2095-------squared error: 3.9194 parameter: [18.39751227  0.80738387 -1.8365013
2 -0.1798005 ]
Round2096-------squared error: 3.9194 parameter: [18.39751471  0.80725783 -1.8366228
6 -0.17979012]
Round2097-------squared error: 3.9194 parameter: [18.39751713  0.80713191 -1.8367442
7 -0.17977973]
Round2098-------squared error: 3.9194 parameter: [18.39751955  0.80700609 -1.8368655
6 -0.17976933]
Round2099-------squared error: 3.9194 parameter: [18.39752195  0.8068804  -1.8369867
1 -0.17975892]
Round2100-------squared error: 3.9194 parameter: [18.39752434  0.80675482 -1.8371077
5 -0.17974851]
Round2101-------squared error: 3.9194 parameter: [18.39752672  0.80662936 -1.8372286
5 -0.17973809]
Round2102-------squared error: 3.9194 parameter: [18.39752908  0.80650401 -1.8373494
3 -0.17972765]
Round2103-------squared error: 3.9193 parameter: [18.39753144  0.80637877 -1.8374700
9 -0.17971722]
Round2104-------squared error: 3.9193 parameter: [18.39753378  0.80625365 -1.8375906
2 -0.17970677]
Round2105-------squared error: 3.9193 parameter: [18.39753611  0.80612865 -1.8377110
2 -0.17969631]
Round2106-------squared error: 3.9193 parameter: [18.39753843  0.80600376 -1.8378313
-0.17968585]
Round2107-------squared error: 3.9193 parameter: [18.39754074  0.80587899 -1.8379514
5 -0.17967538]
Round2108-------squared error: 3.9193 parameter: [18.39754304  0.80575433 -1.8380714
8 -0.1796649 ]
Round2109-------squared error: 3.9193 parameter: [18.39754532  0.80562978 -1.8381913
9 -0.17965442]
Round2110-------squared error: 3.9193 parameter: [18.39754759  0.80550535 -1.8383111
7 -0.17964393]
Round2111-------squared error: 3.9192 parameter: [18.39754986  0.80538103 -1.8384308
3 -0.17963343]
Round2112-------squared error: 3.9192 parameter: [18.39755211  0.80525683 -1.8385503
6 -0.17962292]
```

```
Round2113-------squared error: 3.9192 parameter: [18.39755435  0.80513274 -1.8386697
6 -0.1796124 ]
Round2114-------squared error: 3.9192 parameter: [18.39755657  0.80500877 -1.8387890
5 -0.17960188]
Round2115-------squared error: 3.9192 parameter: [18.39755879  0.80488491 -1.8389082
1 -0.17959135]
Round2116-------squared error: 3.9192 parameter: [18.397561    0.80476116 -1.8390272
4 -0.17958081]
Round2117-------squared error: 3.9192 parameter: [18.39756319  0.80463753 -1.8391461
6 -0.17957027]
Round2118-------squared error: 3.9192 parameter: [18.39756538  0.80451401 -1.8392649
5 -0.17955972]
Round2119-------squared error: 3.9192 parameter: [18.39756755  0.8043906  -1.8393836
1 -0.17954916]
Round2120-------squared error: 3.9191 parameter: [18.39756971  0.80426731 -1.8395021
5 -0.1795386 ]
Round2121-------squared error: 3.9191 parameter: [18.39757186  0.80414413 -1.8396205
7 -0.17952803]
Round2122-------squared error: 3.9191 parameter: [18.397574    0.80402107 -1.8397388
7 -0.17951745]
Round2123-------squared error: 3.9191 parameter: [18.39757613  0.80389812 -1.8398570
5 -0.17950686]
Round2124-------squared error: 3.9191 parameter: [18.39757825  0.80377528 -1.8399751
-0.17949627]
Round2125-------squared error: 3.9191 parameter: [18.39758036  0.80365255 -1.8400930
3 -0.17948567]
Round2126-------squared error: 3.9191 parameter: [18.39758246  0.80352994 -1.8402108
4 -0.17947506]
Round2127-------squared error: 3.9191 parameter: [18.39758455  0.80340744 -1.8403285
2 -0.17946445]
Round2128-------squared error: 3.9190 parameter: [18.39758663  0.80328505 -1.8404460
8 -0.17945383]
Round2129-------squared error: 3.9190 parameter: [18.39758869  0.80316277 -1.8405635
3 -0.17944321]
Round2130-------squared error: 3.9190 parameter: [18.39759075  0.80304061 -1.8406808
5 -0.17943258]
Round2131-------squared error: 3.9190 parameter: [18.39759279  0.80291856 -1.8407980
5 -0.17942194]
Round2132-------squared error: 3.9190 parameter: [18.39759483  0.80279662 -1.8409151
2 -0.1794113 ]
Round2133-------squared error: 3.9190 parameter: [18.39759686  0.8026748  -1.8410320
8 -0.17940065]
Round2134-------squared error: 3.9190 parameter: [18.39759887  0.80255309 -1.8411489
1 -0.17938999]
Round2135-------squared error: 3.9190 parameter: [18.39760088  0.80243149 -1.8412656
3 -0.17937933]
Round2136-------squared error: 3.9190 parameter: [18.39760287  0.80231    -1.8413822
2 -0.17936866]
Round2137-------squared error: 3.9189 parameter: [18.39760486  0.80218862 -1.8414986
9 -0.17935798]
Round2138-------squared error: 3.9189 parameter: [18.39760683  0.80206735 -1.8416150
5 -0.1793473 ]
Round2139-------squared error: 3.9189 parameter: [18.3976088   0.8019462  -1.8417312
8 -0.17933662]
Round2140-------squared error: 3.9189 parameter: [18.39761076  0.80182516 -1.8418473
9 -0.17932593]
Round2141-------squared error: 3.9189 parameter: [18.3976127   0.80170423 -1.8419633
8 -0.17931523]
Round2142-------squared error: 3.9189 parameter: [18.39761464  0.80158341 -1.8420792
5 -0.17930452]
Round2143-------squared error: 3.9189 parameter: [18.39761657  0.8014627  -1.842195
-0.17929381]
Round2144-------squared error: 3.9189 parameter: [18.39761848  0.8013421  -1.8423106
3 -0.1792831 ]
```

```
Round2145-------squared error: 3.9189 parameter: [18.39762039  0.80122162 -1.8424261
5 -0.17927238]
Round2146-------squared error: 3.9188 parameter: [18.39762229  0.80110125 -1.8425415
4 -0.17926165]
Round2147-------squared error: 3.9188 parameter: [18.39762418  0.80098098 -1.8426568
1 -0.17925092]
Round2148-------squared error: 3.9188 parameter: [18.39762606  0.80086083 -1.8427719
7 -0.17924018]
Round2149-------squared error: 3.9188 parameter: [18.39762793  0.80074079 -1.842887
-0.17922944]
Round2150-------squared error: 3.9188 parameter: [18.39762979  0.80062086 -1.8430019
2 -0.17921869]
Round2151-------squared error: 3.9188 parameter: [18.39763164  0.80050104 -1.8431167
2 -0.17920794]
Round2152-------squared error: 3.9188 parameter: [18.39763348  0.80038133 -1.8432314
-0.17919718]
Round2153-------squared error: 3.9188 parameter: [18.39763531  0.80026173 -1.8433459
6 -0.17918642]
Round2154-------squared error: 3.9188 parameter: [18.39763714  0.80014224 -1.8434604
-0.17917565]
Round2155-------squared error: 3.9187 parameter: [18.39763895  0.80002286 -1.8435747
3 -0.17916487]
Round2156-------squared error: 3.9187 parameter: [18.39764076  0.79990359 -1.8436889
3 -0.1791541 ]
Round2157-------squared error: 3.9187 parameter: [18.39764255  0.79978443 -1.8438030
2 -0.17914331]
Round2158-------squared error: 3.9187 parameter: [18.39764434  0.79966538 -1.8439169
9 -0.17913252]
Round2159-------squared error: 3.9187 parameter: [18.39764612  0.79954644 -1.8440308
5 -0.17912173]
Round2160-------squared error: 3.9187 parameter: [18.39764789  0.79942762 -1.8441445
8 -0.17911093]
Round2161-------squared error: 3.9187 parameter: [18.39764965  0.7993089  -1.8442582
-0.17910013]
Round2162-------squared error: 3.9187 parameter: [18.3976514   0.79919029 -1.8443717
-0.17908932]
Round2163-------squared error: 3.9187 parameter: [18.39765314  0.79907179 -1.8444850
9 -0.17907851]
Round2164-------squared error: 3.9186 parameter: [18.39765488  0.79895339 -1.8445983
6 -0.17906769]
Round2165-------squared error: 3.9186 parameter: [18.3976566   0.79883511 -1.8447115
1 -0.17905687]
Round2166-------squared error: 3.9186 parameter: [18.39765832  0.79871694 -1.8448245
4 -0.17904604]
Round2167-------squared error: 3.9186 parameter: [18.39766003  0.79859888 -1.8449374
6 -0.17903521]
Round2168-------squared error: 3.9186 parameter: [18.39766173  0.79848092 -1.8450502
6 -0.17902438]
Round2169-------squared error: 3.9186 parameter: [18.39766342  0.79836308 -1.8451629
4 -0.17901354]
Round2170-------squared error: 3.9186 parameter: [18.3976651   0.79824534 -1.8452755
1 -0.17900269]
Round2171-------squared error: 3.9186 parameter: [18.39766678  0.79812771 -1.8453879
7 -0.17899184]
Round2172-------squared error: 3.9186 parameter: [18.39766844  0.7980102  -1.8455003
-0.17898099]
Round2173-------squared error: 3.9185 parameter: [18.3976701   0.79789278 -1.8456125
2 -0.17897013]
Round2174-------squared error: 3.9185 parameter: [18.39767175  0.79777548 -1.8457246
3 -0.17895927]
Round2175-------squared error: 3.9185 parameter: [18.39767339  0.79765829 -1.8458366
2 -0.17894841]
Round2176-------squared error: 3.9185 parameter: [18.39767502  0.7975412  -1.8459484
9 -0.17893754]
```

```
Round2177-------squared error: 3.9185 parameter: [18.39767665  0.79742423 -1.8460602
5 -0.17892667]
Round2178-------squared error: 3.9185 parameter: [18.39767827  0.79730736 -1.8461719
-0.17891579]
Round2179-------squared error: 3.9185 parameter: [18.39767987  0.7971906  -1.8462834
3 -0.17890491]
Round2180-------squared error: 3.9185 parameter: [18.39768147  0.79707394 -1.8463948
4 -0.17889402]
Round2181-------squared error: 3.9185 parameter: [18.39768307  0.7969574  -1.8465061
4 -0.17888314]
Round2182-------squared error: 3.9185 parameter: [18.39768465  0.79684096 -1.8466173
3 -0.17887224]
Round2183-------squared error: 3.9184 parameter: [18.39768623  0.79672463 -1.8467284
-0.17886135]
Round2184-------squared error: 3.9184 parameter: [18.3976878   0.79660841 -1.8468393
6 -0.17885045]
Round2185-------squared error: 3.9184 parameter: [18.39768936  0.7964923  -1.8469502
-0.17883954]
Round2186-------squared error: 3.9184 parameter: [18.39769091  0.79637629 -1.8470609
3 -0.17882864]
Round2187-------squared error: 3.9184 parameter: [18.39769246  0.79626039 -1.8471715
5 -0.17881772]
Round2188-------squared error: 3.9184 parameter: [18.39769399  0.7961446  -1.8472820
5 -0.17880681]
Round2189-------squared error: 3.9184 parameter: [18.39769552  0.79602891 -1.8473924
3 -0.17879589]
Round2190-------squared error: 3.9184 parameter: [18.39769705  0.79591333 -1.8475027
1 -0.17878497]
Round2191-------squared error: 3.9184 parameter: [18.39769856  0.79579786 -1.8476128
7 -0.17877405]
Round2192-------squared error: 3.9184 parameter: [18.39770007  0.7956825  -1.8477229
2 -0.17876312]
Round2193-------squared error: 3.9183 parameter: [18.39770157  0.79556724 -1.8478328
5 -0.17875219]
Round2194-------squared error: 3.9183 parameter: [18.39770306  0.79545209 -1.8479426
7 -0.17874125]
Round2195-------squared error: 3.9183 parameter: [18.39770455  0.79533704 -1.8480523
8 -0.17873032]
Round2196-------squared error: 3.9183 parameter: [18.39770602  0.79522211 -1.8481619
8 -0.17871938]
Round2197-------squared error: 3.9183 parameter: [18.39770749  0.79510727 -1.8482714
6 -0.17870843]
Round2198-------squared error: 3.9183 parameter: [18.39770896  0.79499255 -1.8483808
3 -0.17869748]
Round2199-------squared error: 3.9183 parameter: [18.39771041  0.79487793 -1.8484900
9 -0.17868653]
Round2200-------squared error: 3.9183 parameter: [18.39771186  0.79476342 -1.8485992
4 -0.17867558]
Round2201-------squared error: 3.9183 parameter: [18.3977133   0.79464901 -1.8487082
8 -0.17866463]
Round2202-------squared error: 3.9182 parameter: [18.39771473  0.79453471 -1.8488172
-0.17865367]
Round2203-------squared error: 3.9182 parameter: [18.39771616  0.79442051 -1.8489260
1 -0.1786427 ]
Round2204-------squared error: 3.9182 parameter: [18.39771758  0.79430642 -1.8490347
1 -0.17863174]
Round2205-------squared error: 3.9182 parameter: [18.39771899  0.79419244 -1.8491433
-0.17862077]
Round2206-------squared error: 3.9182 parameter: [18.3977204   0.79407856 -1.8492517
7 -0.1786098 ]
Round2207-------squared error: 3.9182 parameter: [18.39772179  0.79396479 -1.8493601
4 -0.17859883]
Round2208-------squared error: 3.9182 parameter: [18.39772318  0.79385112 -1.8494683
9 -0.17858785]
```

```
Round2209-------squared error: 3.9182 parameter: [18.39772457  0.79373756 -1.8495765
4 -0.17857688]
Round2210-------squared error: 3.9182 parameter: [18.39772595  0.79362411 -1.8496845
7 -0.1785659 ]
Round2211-------squared error: 3.9182 parameter: [18.39772732  0.79351075 -1.8497924
9 -0.17855491]
Round2212-------squared error: 3.9181 parameter: [18.39772868  0.79339751 -1.8499003
-0.17854393]
Round2213-------squared error: 3.9181 parameter: [18.39773004  0.79328437 -1.850008
-0.17853294]
Round2214-------squared error: 3.9181 parameter: [18.39773139  0.79317133 -1.8501155
9 -0.17852195]
Round2215-------squared error: 3.9181 parameter: [18.39773273  0.7930584  -1.8502230
7 -0.17851096]
Round2216-------squared error: 3.9181 parameter: [18.39773407  0.79294557 -1.8503304
4 -0.17849996]
Round2217-------squared error: 3.9181 parameter: [18.39773539  0.79283285 -1.8504377
-0.17848896]
Round2218-------squared error: 3.9181 parameter: [18.39773672  0.79272023 -1.8505448
5 -0.17847796]
Round2219-------squared error: 3.9181 parameter: [18.39773803  0.79260772 -1.8506518
9 -0.17846696]
Round2220-------squared error: 3.9181 parameter: [18.39773934  0.79249531 -1.8507588
2 -0.17845596]
Round2221-------squared error: 3.9181 parameter: [18.39774065  0.792383   -1.8508656
4 -0.17844495]
Round2222-------squared error: 3.9181 parameter: [18.39774194  0.7922708  -1.8509723
5 -0.17843394]
Round2223-------squared error: 3.9180 parameter: [18.39774323  0.79215871 -1.8510789
5 -0.17842293]
Round2224-------squared error: 3.9180 parameter: [18.39774452  0.79204672 -1.8511854
4 -0.17841192]
Round2225-------squared error: 3.9180 parameter: [18.3977458   0.79193483 -1.8512918
3 -0.1784009 ]
Round2226-------squared error: 3.9180 parameter: [18.39774707  0.79182304 -1.8513981
-0.17838989]
Round2227-------squared error: 3.9180 parameter: [18.39774833  0.79171136 -1.8515042
7 -0.17837887]
Round2228-------squared error: 3.9180 parameter: [18.39774959  0.79159978 -1.8516103
2 -0.17836785]
Round2229-------squared error: 3.9180 parameter: [18.39775084  0.79148831 -1.8517162
7 -0.17835683]
Round2230-------squared error: 3.9180 parameter: [18.39775209  0.79137694 -1.8518221
1 -0.1783458 ]
Round2231-------squared error: 3.9180 parameter: [18.39775333  0.79126567 -1.8519278
5 -0.17833478]
Round2232-------squared error: 3.9180 parameter: [18.39775456  0.79115451 -1.8520334
7 -0.17832375]
Round2233-------squared error: 3.9179 parameter: [18.39775579  0.79104345 -1.8521389
9 -0.17831272]
Round2234-------squared error: 3.9179 parameter: [18.39775701  0.79093249 -1.8522443
9 -0.17830169]
Round2235-------squared error: 3.9179 parameter: [18.39775822  0.79082164 -1.8523496
9 -0.17829066]
Round2236-------squared error: 3.9179 parameter: [18.39775943  0.79071089 -1.8524548
9 -0.17827963]
Round2237-------squared error: 3.9179 parameter: [18.39776064  0.79060024 -1.8525599
7 -0.17826859]
Round2238-------squared error: 3.9179 parameter: [18.39776183  0.79048969 -1.8526649
5 -0.17825755]
Round2239-------squared error: 3.9179 parameter: [18.39776302  0.79037925 -1.8527698
2 -0.17824652]
Round2240-------squared error: 3.9179 parameter: [18.39776421  0.79026891 -1.8528745
8 -0.17823548]
```

```
Round2241-------squared error: 3.9179 parameter: [18.39776539  0.79015867 -1.8529792
4 -0.17822444]
Round2242-------squared error: 3.9179 parameter: [18.39776656  0.79004853 -1.8530837
9 -0.17821339]
Round2243-------squared error: 3.9179 parameter: [18.39776773  0.7899385  -1.8531882
3 -0.17820235]
Round2244-------squared error: 3.9178 parameter: [18.39776889  0.78982857 -1.8532925
7 -0.17819131]
Round2245-------squared error: 3.9178 parameter: [18.39777004  0.78971874 -1.8533968
-0.17818026]
Round2246-------squared error: 3.9178 parameter: [18.39777119  0.78960902 -1.8535009
2 -0.17816921]
Round2247-------squared error: 3.9178 parameter: [18.39777234  0.78949939 -1.8536049
3 -0.17815816]
Round2248-------squared error: 3.9178 parameter: [18.39777348  0.78938987 -1.8537088
4 -0.17814711]
Round2249-------squared error: 3.9178 parameter: [18.39777461  0.78928045 -1.8538126
5 -0.17813606]
Round2250-------squared error: 3.9178 parameter: [18.39777574  0.78917113 -1.8539163
5 -0.17812501]
Round2251-------squared error: 3.9178 parameter: [18.39777686  0.78906191 -1.8540199
4 -0.17811396]
Round2252-------squared error: 3.9178 parameter: [18.39777797  0.78895279 -1.8541234
2 -0.17810291]
Round2253-------squared error: 3.9178 parameter: [18.39777908  0.78884378 -1.8542268
1 -0.17809185]
Round2254-------squared error: 3.9178 parameter: [18.39778019  0.78873486 -1.8543300
8 -0.1780808 ]
Round2255-------squared error: 3.9177 parameter: [18.39778129  0.78862605 -1.8544332
5 -0.17806974]
Round2256-------squared error: 3.9177 parameter: [18.39778238  0.78851734 -1.8545363
2 -0.17805868]
Round2257-------squared error: 3.9177 parameter: [18.39778347  0.78840873 -1.8546392
7 -0.17804762]
Round2258-------squared error: 3.9177 parameter: [18.39778455  0.78830022 -1.8547421
3 -0.17803657]
Round2259-------squared error: 3.9177 parameter: [18.39778563  0.78819181 -1.8548448
8 -0.17802551]
Round2260-------squared error: 3.9177 parameter: [18.3977867   0.78808351 -1.8549475
2 -0.17801445]
Round2261-------squared error: 3.9177 parameter: [18.39778777  0.7879753  -1.8550500
6 -0.17800338]
Round2262-------squared error: 3.9177 parameter: [18.39778883  0.7878672  -1.8551525
-0.17799232]
Round2263-------squared error: 3.9177 parameter: [18.39778988  0.78775919 -1.8552548
3 -0.17798126]
Round2264-------squared error: 3.9177 parameter: [18.39779093  0.78765129 -1.8553570
6 -0.1779702 ]
Round2265-------squared error: 3.9177 parameter: [18.39779198  0.78754348 -1.8554591
8 -0.17795914]
Round2266-------squared error: 3.9176 parameter: [18.39779302  0.78743578 -1.8555612
-0.17794807]
Round2267-------squared error: 3.9176 parameter: [18.39779405  0.78732817 -1.8556631
1 -0.17793701]
Round2268-------squared error: 3.9176 parameter: [18.39779508  0.78722067 -1.8557649
2 -0.17792594]
Round2269-------squared error: 3.9176 parameter: [18.39779611  0.78711327 -1.8558666
3 -0.17791488]
Round2270-------squared error: 3.9176 parameter: [18.39779713  0.78700596 -1.8559682
3 -0.17790381]
Round2271-------squared error: 3.9176 parameter: [18.39779814  0.78689876 -1.8560697
3 -0.17789275]
Round2272-------squared error: 3.9176 parameter: [18.39779915  0.78679166 -1.8561711
3 -0.17788168]
```

```
Round2273-------squared error: 3.9176 parameter: [18.39780016  0.78668465 -1.8562724
2 -0.17787061]
Round2274-------squared error: 3.9176 parameter: [18.39780116  0.78657775 -1.8563736
1 -0.17785955]
Round2275-------squared error: 3.9176 parameter: [18.39780215  0.78647094 -1.8564747
-0.17784848]
Round2276-------squared error: 3.9176 parameter: [18.39780314  0.78636424 -1.8565756
9 -0.17783741]
Round2277-------squared error: 3.9176 parameter: [18.39780412  0.78625763 -1.8566765
7 -0.17782635]
Round2278-------squared error: 3.9175 parameter: [18.3978051   0.78615113 -1.8567773
5 -0.17781528]
Round2279-------squared error: 3.9175 parameter: [18.39780608  0.78604472 -1.8568780
2 -0.17780421]
Round2280-------squared error: 3.9175 parameter: [18.39780705  0.78593841 -1.8569786
-0.17779315]
Round2281-------squared error: 3.9175 parameter: [18.39780801  0.7858322  -1.8570790
7 -0.17778208]
Round2282-------squared error: 3.9175 parameter: [18.39780897  0.78572609 -1.8571794
4 -0.17777101]
Round2283-------squared error: 3.9175 parameter: [18.39780993  0.78562008 -1.8572797
-0.17775994]
Round2284-------squared error: 3.9175 parameter: [18.39781088  0.78551417 -1.8573798
7 -0.17774888]
Round2285-------squared error: 3.9175 parameter: [18.39781182  0.78540835 -1.8574799
3 -0.17773781]
Round2286-------squared error: 3.9175 parameter: [18.39781276  0.78530264 -1.8575798
9 -0.17772674]
Round2287-------squared error: 3.9175 parameter: [18.3978137   0.78519702 -1.8576797
5 -0.17771568]
Round2288-------squared error: 3.9175 parameter: [18.39781463  0.7850915  -1.8577795
1 -0.17770461]
Round2289-------squared error: 3.9174 parameter: [18.39781556  0.78498608 -1.8578791
7 -0.17769354]
Round2290-------squared error: 3.9174 parameter: [18.39781648  0.78488076 -1.8579787
2 -0.17768248]
Round2291-------squared error: 3.9174 parameter: [18.3978174   0.78477553 -1.8580781
8 -0.17767141]
Round2292-------squared error: 3.9174 parameter: [18.39781831  0.78467041 -1.8581775
3 -0.17766035]
Round2293-------squared error: 3.9174 parameter: [18.39781922  0.78456538 -1.8582767
8 -0.17764928]
Round2294-------squared error: 3.9174 parameter: [18.39782012  0.78446045 -1.8583759
3 -0.17763822]
Round2295-------squared error: 3.9174 parameter: [18.39782102  0.78435562 -1.8584749
9 -0.17762715]
Round2296-------squared error: 3.9174 parameter: [18.39782192  0.78425089 -1.8585739
4 -0.17761609]
Round2297-------squared error: 3.9174 parameter: [18.39782281  0.78414625 -1.8586727
8 -0.17760502]
Round2298-------squared error: 3.9174 parameter: [18.39782369  0.78404171 -1.8587715
3 -0.17759396]
Round2299-------squared error: 3.9174 parameter: [18.39782458  0.78393727 -1.8588701
8 -0.1775829 ]
Round2300-------squared error: 3.9174 parameter: [18.39782545  0.78383292 -1.8589687
3 -0.17757184]
Round2301-------squared error: 3.9173 parameter: [18.39782633  0.78372868 -1.8590671
8 -0.17756078]
Round2302-------squared error: 3.9173 parameter: [18.39782719  0.78362453 -1.8591655
3 -0.17754971]
Round2303-------squared error: 3.9173 parameter: [18.39782806  0.78352048 -1.8592637
8 -0.17753865]
Round2304-------squared error: 3.9173 parameter: [18.39782892  0.78341652 -1.8593619
3 -0.1775276 ]
```

```
Round2305-------squared error: 3.9173 parameter: [18.39782977  0.78331266 -1.8594599
7 -0.17751654]
Round2306-------squared error: 3.9173 parameter: [18.39783062  0.7832089  -1.8595579
2 -0.17750548]
Round2307-------squared error: 3.9173 parameter: [18.39783147  0.78310524 -1.8596557
7 -0.17749442]
Round2308-------squared error: 3.9173 parameter: [18.39783231  0.78300167 -1.8597535
3 -0.17748336]
Round2309-------squared error: 3.9173 parameter: [18.39783315  0.7828982  -1.8598511
8 -0.17747231]
Round2310-------squared error: 3.9173 parameter: [18.39783399  0.78279482 -1.8599487
3 -0.17746125]
Round2311-------squared error: 3.9173 parameter: [18.39783482  0.78269155 -1.8600461
8 -0.1774502 ]
Round2312-------squared error: 3.9173 parameter: [18.39783564  0.78258836 -1.8601435
4 -0.17743915]
Round2313-------squared error: 3.9172 parameter: [18.39783646  0.78248528 -1.8602407
9 -0.1774281 ]
Round2314-------squared error: 3.9172 parameter: [18.39783728  0.78238229 -1.8603379
5 -0.17741704]
Round2315-------squared error: 3.9172 parameter: [18.39783809  0.7822794  -1.8604350
1 -0.17740599]
Round2316-------squared error: 3.9172 parameter: [18.3978389   0.7821766  -1.8605319
7 -0.17739495]
Round2317-------squared error: 3.9172 parameter: [18.39783971  0.7820739  -1.8606288
3 -0.1773839 ]
Round2318-------squared error: 3.9172 parameter: [18.39784051  0.78197129 -1.8607256
-0.17737285]
Round2319-------squared error: 3.9172 parameter: [18.39784131  0.78186879 -1.8608222
6 -0.1773618 ]
Round2320-------squared error: 3.9172 parameter: [18.3978421   0.78176637 -1.8609188
3 -0.17735076]
Round2321-------squared error: 3.9172 parameter: [18.39784289  0.78166405 -1.8610153
-0.17733972]
Round2322-------squared error: 3.9172 parameter: [18.39784368  0.78156183 -1.8611116
7 -0.17732867]
Round2323-------squared error: 3.9172 parameter: [18.39784446  0.78145971 -1.8612079
5 -0.17731763]
Round2324-------squared error: 3.9172 parameter: [18.39784524  0.78135767 -1.8613041
3 -0.17730659]
Round2325-------squared error: 3.9172 parameter: [18.39784601  0.78125574 -1.8614002
1 -0.17729555]
Round2326-------squared error: 3.9171 parameter: [18.39784678  0.7811539  -1.8614961
9 -0.17728452]
Round2327-------squared error: 3.9171 parameter: [18.39784755  0.78105215 -1.8615920
7 -0.17727348]
Round2328-------squared error: 3.9171 parameter: [18.39784831  0.7809505  -1.8616878
6 -0.17726244]
Round2329-------squared error: 3.9171 parameter: [18.39784907  0.78084895 -1.8617835
5 -0.17725141]
Round2330-------squared error: 3.9171 parameter: [18.39784982  0.78074749 -1.8618791
5 -0.17724038]
Round2331-------squared error: 3.9171 parameter: [18.39785057  0.78064612 -1.8619746
4 -0.17722935]
Round2332-------squared error: 3.9171 parameter: [18.39785132  0.78054485 -1.8620700
4 -0.17721832]
Round2333-------squared error: 3.9171 parameter: [18.39785206  0.78044367 -1.8621653
5 -0.17720729]
Round2334-------squared error: 3.9171 parameter: [18.3978528   0.78034259 -1.8622605
6 -0.17719626]
Round2335-------squared error: 3.9171 parameter: [18.39785354  0.7802416  -1.8623556
7 -0.17718524]
Round2336-------squared error: 3.9171 parameter: [18.39785427  0.78014071 -1.8624506
8 -0.17717422]
```

```
Round2337-------squared error: 3.9171 parameter: [18.397855    0.78003991 -1.8625456
-0.17716319]
Round2338-------squared error: 3.9171 parameter: [18.39785572  0.77993921 -1.8626404
2 -0.17715217]
Round2339-------squared error: 3.9170 parameter: [18.39785645  0.7798386  -1.8627351
5 -0.17714116]
Round2340-------squared error: 3.9170 parameter: [18.39785716  0.77973808 -1.8628297
8 -0.17713014]
Round2341-------squared error: 3.9170 parameter: [18.39785788  0.77963766 -1.8629243
2 -0.17711912]
Round2342-------squared error: 3.9170 parameter: [18.39785859  0.77953733 -1.8630187
6 -0.17710811]
Round2343-------squared error: 3.9170 parameter: [18.3978593  0.7794371 -1.8631131 -
0.1770971]
Round2344-------squared error: 3.9170 parameter: [18.39786     0.77933696 -1.8632073
5 -0.17708609]
Round2345-------squared error: 3.9170 parameter: [18.3978607   0.77923691 -1.8633015
-0.17707508]
Round2346-------squared error: 3.9170 parameter: [18.3978614   0.77913696 -1.8633955
6 -0.17706407]
Round2347-------squared error: 3.9170 parameter: [18.39786209  0.7790371  -1.8634895
2 -0.17705307]
Round2348-------squared error: 3.9170 parameter: [18.39786278  0.77893733 -1.8635833
9 -0.17704206]
Round2349-------squared error: 3.9170 parameter: [18.39786346  0.77883766 -1.8636771
7 -0.17703106]
Round2350-------squared error: 3.9170 parameter: [18.39786415  0.77873808 -1.8637708
4 -0.17702006]
Round2351-------squared error: 3.9170 parameter: [18.39786483  0.77863859 -1.8638644
3 -0.17700907]
Round2352-------squared error: 3.9169 parameter: [18.3978655   0.7785392  -1.8639579
2 -0.17699807]
Round2353-------squared error: 3.9169 parameter: [18.39786617  0.7784399  -1.8640513
1 -0.17698708]
Round2354-------squared error: 3.9169 parameter: [18.39786684  0.77834069 -1.8641446
1 -0.17697609]
Round2355-------squared error: 3.9169 parameter: [18.39786751  0.77824157 -1.8642378
2 -0.1769651 ]
Round2356-------squared error: 3.9169 parameter: [18.39786817  0.77814255 -1.8643309
3 -0.17695411]
Round2357-------squared error: 3.9169 parameter: [18.39786883  0.77804362 -1.8644239
5 -0.17694312]
Round2358-------squared error: 3.9169 parameter: [18.39786949  0.77794478 -1.8645168
7 -0.17693214]
Round2359-------squared error: 3.9169 parameter: [18.39787014  0.77784604 -1.8646097
-0.17692116]
Round2360-------squared error: 3.9169 parameter: [18.39787079  0.77774739 -1.8647024
4 -0.17691018]
Round2361-------squared error: 3.9169 parameter: [18.39787144  0.77764883 -1.8647950
8 -0.1768992 ]
Round2362-------squared error: 3.9169 parameter: [18.39787208  0.77755036 -1.8648876
3 -0.17688823]
Round2363-------squared error: 3.9169 parameter: [18.39787272  0.77745199 -1.8649800
8 -0.17687725]
Round2364-------squared error: 3.9169 parameter: [18.39787335  0.7773537  -1.8650724
5 -0.17686628]
Round2365-------squared error: 3.9169 parameter: [18.39787399  0.77725551 -1.8651647
2 -0.17685532]
Round2366-------squared error: 3.9168 parameter: [18.39787462  0.77715741 -1.8652568
9 -0.17684435]
Round2367-------squared error: 3.9168 parameter: [18.39787524  0.77705941 -1.8653489
7 -0.17683338]
Round2368-------squared error: 3.9168 parameter: [18.39787587  0.77696149 -1.8654409
6 -0.17682242]
```

```
Round2369-------squared error: 3.9168 parameter: [18.39787649  0.77686367 -1.8655328
6 -0.17681146]
Round2370-------squared error: 3.9168 parameter: [18.39787711  0.77676594 -1.8656246
7 -0.17680051]
Round2371-------squared error: 3.9168 parameter: [18.39787772  0.7766683  -1.8657163
8 -0.17678955]
Round2372-------squared error: 3.9168 parameter: [18.39787833  0.77657075 -1.865808
-0.1767786 ]
Round2373-------squared error: 3.9168 parameter: [18.39787894  0.77647329 -1.8658995
2 -0.17676765]
Round2374-------squared error: 3.9168 parameter: [18.39787955  0.77637592 -1.8659909
6 -0.1767567 ]
Round2375-------squared error: 3.9168 parameter: [18.39788015  0.77627865 -1.8660823
-0.17674576]
Round2376-------squared error: 3.9168 parameter: [18.39788075  0.77618146 -1.8661735
5 -0.17673482]
Round2377-------squared error: 3.9168 parameter: [18.39788134  0.77608437 -1.8662647
1 -0.17672388]
Round2378-------squared error: 3.9168 parameter: [18.39788194  0.77598737 -1.8663557
8 -0.17671294]
Round2379-------squared error: 3.9167 parameter: [18.39788253  0.77589046 -1.8664467
5 -0.176702  ]
Round2380-------squared error: 3.9167 parameter: [18.39788311  0.77579364 -1.8665376
3 -0.17669107]
Round2381-------squared error: 3.9167 parameter: [18.3978837   0.77569691 -1.8666284
2 -0.17668014]
Round2382-------squared error: 3.9167 parameter: [18.39788428  0.77560027 -1.8667191
2 -0.17666921]
Round2383-------squared error: 3.9167 parameter: [18.39788486  0.77550372 -1.8668097
3 -0.17665829]
Round2384-------squared error: 3.9167 parameter: [18.39788543  0.77540727 -1.8669002
5 -0.17664737]
Round2385-------squared error: 3.9167 parameter: [18.39788601  0.7753109  -1.8669906
7 -0.17663645]
Round2386-------squared error: 3.9167 parameter: [18.39788658  0.77521462 -1.8670810
1 -0.17662553]
Round2387-------squared error: 3.9167 parameter: [18.39788714  0.77511844 -1.8671712
5 -0.17661462]
Round2388-------squared error: 3.9167 parameter: [18.39788771  0.77502234 -1.8672614
-0.1766037 ]
Round2389-------squared error: 3.9167 parameter: [18.39788827  0.77492633 -1.8673514
7 -0.1765928 ]
Round2390-------squared error: 3.9167 parameter: [18.39788883  0.77483042 -1.8674414
4 -0.17658189]
Round2391-------squared error: 3.9167 parameter: [18.39788938  0.77473459 -1.8675313
2 -0.17657099]
Round2392-------squared error: 3.9167 parameter: [18.39788994  0.77463885 -1.8676211
1 -0.17656009]
Round2393-------squared error: 3.9167 parameter: [18.39789049  0.77454321 -1.8677108
1 -0.17654919]
Round2394-------squared error: 3.9166 parameter: [18.39789104  0.77444765 -1.8678004
2 -0.17653829]
Round2395-------squared error: 3.9166 parameter: [18.39789158  0.77435218 -1.8678899
4 -0.1765274 ]
Round2396-------squared error: 3.9166 parameter: [18.39789212  0.77425681 -1.8679793
7 -0.17651651]
Round2397-------squared error: 3.9166 parameter: [18.39789266  0.77416152 -1.8680687
-0.17650563]
Round2398-------squared error: 3.9166 parameter: [18.3978932   0.77406632 -1.8681579
5 -0.17649474]
Round2399-------squared error: 3.9166 parameter: [18.39789373  0.77397121 -1.8682471
1 -0.17648386]
Round2400-------squared error: 3.9166 parameter: [18.39789426  0.77387619 -1.8683361
8 -0.17647299]
```

```
Round2401-------squared error: 3.9166 parameter: [18.39789479  0.77378126 -1.8684251
6 -0.17646211]
Round2402-------squared error: 3.9166 parameter: [18.39789532  0.77368641 -1.8685140
5 -0.17645124]
Round2403-------squared error: 3.9166 parameter: [18.39789584  0.77359166 -1.8686028
5 -0.17644037]
Round2404-------squared error: 3.9166 parameter: [18.39789636  0.773497   -1.8686915
6 -0.17642951]
Round2405-------squared error: 3.9166 parameter: [18.39789688  0.77340242 -1.8687801
9 -0.17641864]
Round2406-------squared error: 3.9166 parameter: [18.3978974   0.77330794 -1.8688687
2 -0.17640779]
Round2407-------squared error: 3.9166 parameter: [18.39789791  0.77321354 -1.8689571
6 -0.17639693]
Round2408-------squared error: 3.9165 parameter: [18.39789842  0.77311923 -1.8690455
2 -0.17638608]
Round2409-------squared error: 3.9165 parameter: [18.39789893  0.77302501 -1.8691337
8 -0.17637523]
Round2410-------squared error: 3.9165 parameter: [18.39789943  0.77293088 -1.8692219
6 -0.17636438]
Round2411-------squared error: 3.9165 parameter: [18.39789994  0.77283683 -1.8693100
5 -0.17635354]
Round2412-------squared error: 3.9165 parameter: [18.39790044  0.77274288 -1.8693980
5 -0.1763427 ]
Round2413-------squared error: 3.9165 parameter: [18.39790093  0.77264901 -1.8694859
6 -0.17633186]
Round2414-------squared error: 3.9165 parameter: [18.39790143  0.77255523 -1.8695737
9 -0.17632102]
Round2415-------squared error: 3.9165 parameter: [18.39790192  0.77246154 -1.8696615
2 -0.17631019]
Round2416-------squared error: 3.9165 parameter: [18.39790241  0.77236793 -1.8697491
7 -0.17629937]
Round2417-------squared error: 3.9165 parameter: [18.3979029   0.77227442 -1.8698367
3 -0.17628854]
Round2418-------squared error: 3.9165 parameter: [18.39790339  0.77218099 -1.8699242
-0.17627772]
Round2419-------squared error: 3.9165 parameter: [18.39790387  0.77208765 -1.8700115
8 -0.1762669 ]
Round2420-------squared error: 3.9165 parameter: [18.39790435  0.7719944  -1.8700988
8 -0.17625609]
Round2421-------squared error: 3.9165 parameter: [18.39790483  0.77190123 -1.8701860
8 -0.17624528]
Round2422-------squared error: 3.9165 parameter: [18.3979053   0.77180816 -1.8702732
-0.17623447]
Round2423-------squared error: 3.9164 parameter: [18.39790578  0.77171517 -1.8703602
3 -0.17622366]
Round2424-------squared error: 3.9164 parameter: [18.39790625  0.77162226 -1.8704471
8 -0.17621286]
Round2425-------squared error: 3.9164 parameter: [18.39790672  0.77152945 -1.8705340
4 -0.17620207]
Round2426-------squared error: 3.9164 parameter: [18.39790718  0.77143672 -1.8706208
1 -0.17619127]
Round2427-------squared error: 3.9164 parameter: [18.39790765  0.77134408 -1.8707074
9 -0.17618048]
Round2428-------squared error: 3.9164 parameter: [18.39790811  0.77125153 -1.8707940
9 -0.17616969]
Round2429-------squared error: 3.9164 parameter: [18.39790857  0.77115906 -1.8708806
-0.17615891]
Round2430-------squared error: 3.9164 parameter: [18.39790903  0.77106668 -1.8709670
2 -0.17614813]
Round2431-------squared error: 3.9164 parameter: [18.39790948  0.77097439 -1.8710533
5 -0.17613735]
Round2432-------squared error: 3.9164 parameter: [18.39790993  0.77088218 -1.8711396
-0.17612658]
```

```
Round2433-------squared error: 3.9164 parameter: [18.39791038  0.77079006 -1.8712257
7 -0.17611581]
Round2434-------squared error: 3.9164 parameter: [18.39791083  0.77069803 -1.8713118
4 -0.17610504]
Round2435-------squared error: 3.9164 parameter: [18.39791128  0.77060608 -1.8713978
3 -0.17609428]
Round2436-------squared error: 3.9164 parameter: [18.39791172  0.77051422 -1.8714837
3 -0.17608352]
Round2437-------squared error: 3.9164 parameter: [18.39791216  0.77042245 -1.8715695
5 -0.17607277]
Round2438-------squared error: 3.9164 parameter: [18.3979126   0.77033076 -1.8716552
8 -0.17606201]
Round2439-------squared error: 3.9163 parameter: [18.39791304  0.77023916 -1.8717409
3 -0.17605127]
Round2440-------squared error: 3.9163 parameter: [18.39791347  0.77014764 -1.8718264
9 -0.17604052]
Round2441-------squared error: 3.9163 parameter: [18.39791391  0.77005621 -1.8719119
6 -0.17602978]
Round2442-------squared error: 3.9163 parameter: [18.39791434  0.76996487 -1.8719973
5 -0.17601904]
Round2443-------squared error: 3.9163 parameter: [18.39791477  0.76987361 -1.8720826
5 -0.17600831]
Round2444-------squared error: 3.9163 parameter: [18.39791519  0.76978244 -1.8721678
6 -0.17599758]
Round2445-------squared error: 3.9163 parameter: [18.39791562  0.76969136 -1.872253
-0.17598685]
Round2446-------squared error: 3.9163 parameter: [18.39791604  0.76960036 -1.8723380
4 -0.17597613]
Round2447-------squared error: 3.9163 parameter: [18.39791646  0.76950944 -1.872423
-0.17596541]
Round2448-------squared error: 3.9163 parameter: [18.39791688  0.76941861 -1.8725078
8 -0.1759547 ]
Round2449-------squared error: 3.9163 parameter: [18.39791729  0.76932787 -1.8725926
7 -0.17594399]
Round2450-------squared error: 3.9163 parameter: [18.3979177   0.76923721 -1.8726773
7 -0.17593328]
Round2451-------squared error: 3.9163 parameter: [18.39791812  0.76914664 -1.8727619
9 -0.17592258]
Round2452-------squared error: 3.9163 parameter: [18.39791853  0.76905615 -1.8728465
3 -0.17591188]
Round2453-------squared error: 3.9163 parameter: [18.39791893  0.76896575 -1.8729309
8 -0.17590118]
Round2454-------squared error: 3.9163 parameter: [18.39791934  0.76887543 -1.8730153
4 -0.17589049]
Round2455-------squared error: 3.9162 parameter: [18.39791974  0.7687852  -1.8730996
2 -0.1758798 ]
Round2456-------squared error: 3.9162 parameter: [18.39792014  0.76869505 -1.8731838
2 -0.17586912]
Round2457-------squared error: 3.9162 parameter: [18.39792054  0.76860499 -1.8732679
3 -0.17585844]
Round2458-------squared error: 3.9162 parameter: [18.39792094  0.76851501 -1.8733519
6 -0.17584776]
Round2459-------squared error: 3.9162 parameter: [18.39792133  0.76842511 -1.8734359
1 -0.17583709]
Round2460-------squared error: 3.9162 parameter: [18.39792173  0.7683353  -1.8735197
7 -0.17582642]
Round2461-------squared error: 3.9162 parameter: [18.39792212  0.76824558 -1.8736035
4 -0.17581576]
Round2462-------squared error: 3.9162 parameter: [18.39792251  0.76815594 -1.8736872
3 -0.1758051 ]
Round2463-------squared error: 3.9162 parameter: [18.3979229   0.76806638 -1.8737708
4 -0.17579444]
Round2464-------squared error: 3.9162 parameter: [18.39792328  0.76797691 -1.8738543
7 -0.17578379]
```

```
Round2465-------squared error: 3.9162 parameter: [18.39792367  0.76788753 -1.8739378
1 -0.17577314]
Round2466-------squared error: 3.9162 parameter: [18.39792405  0.76779822 -1.8740211
6 -0.1757625 ]
Round2467-------squared error: 3.9162 parameter: [18.39792443  0.767709   -1.8741044
4 -0.17575186]
Round2468-------squared error: 3.9162 parameter: [18.3979248   0.76761987 -1.8741876
3 -0.17574122]
Round2469-------squared error: 3.9162 parameter: [18.39792518  0.76753082 -1.8742707
4 -0.17573059]
Round2470-------squared error: 3.9162 parameter: [18.39792555  0.76744185 -1.8743537
6 -0.17571996]
Round2471-------squared error: 3.9162 parameter: [18.39792593  0.76735297 -1.8744367
-0.17570934]
Round2472-------squared error: 3.9161 parameter: [18.3979263   0.76726417 -1.8745195
6 -0.17569872]
Round2473-------squared error: 3.9161 parameter: [18.39792667  0.76717545 -1.8746023
3 -0.1756881 ]
Round2474-------squared error: 3.9161 parameter: [18.39792703  0.76708682 -1.8746850
3 -0.17567749]
Round2475-------squared error: 3.9161 parameter: [18.3979274   0.76699827 -1.8747676
4 -0.17566689]
Round2476-------squared error: 3.9161 parameter: [18.39792776  0.7669098  -1.8748501
6 -0.17565628]
Round2477-------squared error: 3.9161 parameter: [18.39792812  0.76682142 -1.8749326
1 -0.17564568]
Round2478-------squared error: 3.9161 parameter: [18.39792848  0.76673312 -1.8750149
7 -0.17563509]
Round2479-------squared error: 3.9161 parameter: [18.39792884  0.7666449  -1.8750972
5 -0.1756245 ]
Round2480-------squared error: 3.9161 parameter: [18.39792919  0.76655677 -1.8751794
5 -0.17561391]
Round2481-------squared error: 3.9161 parameter: [18.39792955  0.76646872 -1.8752615
6 -0.17560333]
Round2482-------squared error: 3.9161 parameter: [18.3979299   0.76638075 -1.8753435
9 -0.17559275]
Round2483-------squared error: 3.9161 parameter: [18.39793025  0.76629287 -1.8754255
4 -0.17558218]
Round2484-------squared error: 3.9161 parameter: [18.3979306   0.76620507 -1.8755074
1 -0.17557161]
Round2485-------squared error: 3.9161 parameter: [18.39793095  0.76611735 -1.8755892
-0.17556105]
Round2486-------squared error: 3.9161 parameter: [18.39793129  0.76602971 -1.8756709
-0.17555049]
Round2487-------squared error: 3.9161 parameter: [18.39793164  0.76594216 -1.8757525
3 -0.17553993]
Round2488-------squared error: 3.9161 parameter: [18.39793198  0.76585469 -1.8758340
7 -0.17552938]
Round2489-------squared error: 3.9160 parameter: [18.39793232  0.7657673  -1.8759155
3 -0.17551883]
Round2490-------squared error: 3.9160 parameter: [18.39793266  0.76567999 -1.8759969
1 -0.17550829]
Round2491-------squared error: 3.9160 parameter: [18.39793299  0.76559277 -1.8760782
1 -0.17549775]
Round2492-------squared error: 3.9160 parameter: [18.39793333  0.76550563 -1.8761594
2 -0.17548722]
Round2493-------squared error: 3.9160 parameter: [18.39793366  0.76541857 -1.8762405
6 -0.17547669]
Round2494-------squared error: 3.9160 parameter: [18.39793399  0.76533159 -1.8763216
1 -0.17546616]
Round2495-------squared error: 3.9160 parameter: [18.39793432  0.76524469 -1.8764025
9 -0.17545564]
Round2496-------squared error: 3.9160 parameter: [18.39793465  0.76515788 -1.8764834
8 -0.17544513]
```

```
Round2497-------squared error: 3.9160 parameter: [18.39793498  0.76507115 -1.8765642
9 -0.17543461]
Round2498-------squared error: 3.9160 parameter: [18.3979353   0.7649845  -1.8766450
2 -0.17542411]
Round2499-------squared error: 3.9160 parameter: [18.39793563  0.76489793 -1.8767256
7 -0.1754136 ]
Round2500-------squared error: 3.9160 parameter: [18.39793595  0.76481144 -1.8768062
4 -0.17540311]
Round2501-------squared error: 3.9160 parameter: [18.39793627  0.76472504 -1.8768867
3 -0.17539261]
Round2502-------squared error: 3.9160 parameter: [18.39793659  0.76463871 -1.8769671
4 -0.17538212]
Round2503-------squared error: 3.9160 parameter: [18.3979369   0.76455247 -1.8770474
7 -0.17537164]
Round2504-------squared error: 3.9160 parameter: [18.39793722  0.76446631 -1.8771277
2 -0.17536116]
Round2505-------squared error: 3.9160 parameter: [18.39793753  0.76438023 -1.8772078
8 -0.17535068]
Round2506-------squared error: 3.9159 parameter: [18.39793785  0.76429423 -1.8772879
7 -0.17534021]
Round2507-------squared error: 3.9159 parameter: [18.39793816  0.76420831 -1.8773679
8 -0.17532974]
Round2508-------squared error: 3.9159 parameter: [18.39793847  0.76412248 -1.8774479
1 -0.17531928]
Round2509-------squared error: 3.9159 parameter: [18.39793877  0.76403672 -1.8775277
6 -0.17530882]
Round2510-------squared error: 3.9159 parameter: [18.39793908  0.76395105 -1.8776075
3 -0.17529837]
Round2511-------squared error: 3.9159 parameter: [18.39793938  0.76386545 -1.8776872
1 -0.17528792]
Round2512-------squared error: 3.9159 parameter: [18.39793969  0.76377994 -1.8777668
2 -0.17527748]
Round2513-------squared error: 3.9159 parameter: [18.39793999  0.76369451 -1.8778463
5 -0.17526704]
Round2514-------squared error: 3.9159 parameter: [18.39794029  0.76360915 -1.8779258
1 -0.17525661]
Round2515-------squared error: 3.9159 parameter: [18.39794059  0.76352388 -1.8780051
8 -0.17524618]
Round2516-------squared error: 3.9159 parameter: [18.39794088  0.76343869 -1.8780844
7 -0.17523575]
Round2517-------squared error: 3.9159 parameter: [18.39794118  0.76335358 -1.8781636
8 -0.17522533]
Round2518-------squared error: 3.9159 parameter: [18.39794147  0.76326855 -1.8782428
2 -0.17521492]
Round2519-------squared error: 3.9159 parameter: [18.39794177  0.7631836  -1.8783218
7 -0.17520451]
Round2520-------squared error: 3.9159 parameter: [18.39794206  0.76309873 -1.8784008
5 -0.1751941 ]
Round2521-------squared error: 3.9159 parameter: [18.39794235  0.76301394 -1.8784797
5 -0.1751837 ]
Round2522-------squared error: 3.9159 parameter: [18.39794264  0.76292923 -1.8785585
7 -0.1751733 ]
Round2523-------squared error: 3.9159 parameter: [18.39794292  0.7628446  -1.8786373
1 -0.17516291]
Round2524-------squared error: 3.9159 parameter: [18.39794321  0.76276005 -1.8787159
7 -0.17515252]
Round2525-------squared error: 3.9158 parameter: [18.39794349  0.76267558 -1.8787945
5 -0.17514214]
Round2526-------squared error: 3.9158 parameter: [18.39794377  0.76259119 -1.8788730
6 -0.17513176]
Round2527-------squared error: 3.9158 parameter: [18.39794406  0.76250688 -1.8789514
8 -0.17512139]
Round2528-------squared error: 3.9158 parameter: [18.39794434  0.76242264 -1.8790298
3 -0.17511102]
```

```
Round2529-------squared error: 3.9158 parameter: [18.39794461  0.76233849 -1.8791081
-0.17510066]
Round2530-------squared error: 3.9158 parameter: [18.39794489  0.76225442 -1.8791863
-0.1750903 ]
Round2531-------squared error: 3.9158 parameter: [18.39794517  0.76217043 -1.8792644
1 -0.17507995]
Round2532-------squared error: 3.9158 parameter: [18.39794544  0.76208651 -1.8793424
5 -0.1750696 ]
Round2533-------squared error: 3.9158 parameter: [18.39794571  0.76200268 -1.8794204
1 -0.17505926]
Round2534-------squared error: 3.9158 parameter: [18.39794598  0.76191892 -1.8794982
9 -0.17504892]
Round2535-------squared error: 3.9158 parameter: [18.39794626  0.76183525 -1.8795760
9 -0.17503859]
Round2536-------squared error: 3.9158 parameter: [18.39794652  0.76175165 -1.8796538
2 -0.17502826]
Round2537-------squared error: 3.9158 parameter: [18.39794679  0.76166813 -1.8797314
7 -0.17501793]
Round2538-------squared error: 3.9158 parameter: [18.39794706  0.76158469 -1.8798090
4 -0.17500761]
Round2539-------squared error: 3.9158 parameter: [18.39794732  0.76150133 -1.8798865
3 -0.1749973 ]
Round2540-------squared error: 3.9158 parameter: [18.39794759  0.76141805 -1.8799639
5 -0.17498699]
Round2541-------squared error: 3.9158 parameter: [18.39794785  0.76133484 -1.8800412
9 -0.17497669]
Round2542-------squared error: 3.9158 parameter: [18.39794811  0.76125172 -1.8801185
5 -0.17496639]
Round2543-------squared error: 3.9158 parameter: [18.39794837  0.76116867 -1.8801957
4 -0.17495609]
Round2544-------squared error: 3.9157 parameter: [18.39794863  0.7610857  -1.8802728
5 -0.1749458 ]
Round2545-------squared error: 3.9157 parameter: [18.39794888  0.76100281 -1.8803498
8 -0.17493552]
Round2546-------squared error: 3.9157 parameter: [18.39794914  0.76092    -1.8804268
3 -0.17492524]
Round2547-------squared error: 3.9157 parameter: [18.39794939  0.76083727 -1.8805037
1 -0.17491497]
Round2548-------squared error: 3.9157 parameter: [18.39794965  0.76075461 -1.8805805
1 -0.1749047 ]
Round2549-------squared error: 3.9157 parameter: [18.3979499   0.76067204 -1.8806572
4 -0.17489443]
Round2550-------squared error: 3.9157 parameter: [18.39795015  0.76058954 -1.8807338
9 -0.17488417]
Round2551-------squared error: 3.9157 parameter: [18.3979504   0.76050711 -1.8808104
6 -0.17487392]
Round2552-------squared error: 3.9157 parameter: [18.39795065  0.76042477 -1.8808869
6 -0.17486367]
Round2553-------squared error: 3.9157 parameter: [18.39795089  0.76034251 -1.8809633
8 -0.17485343]
Round2554-------squared error: 3.9157 parameter: [18.39795114  0.76026032 -1.8810397
3 -0.17484319]
Round2555-------squared error: 3.9157 parameter: [18.39795138  0.76017821 -1.8811159
9 -0.17483295]
Round2556-------squared error: 3.9157 parameter: [18.39795162  0.76009618 -1.8811921
9 -0.17482272]
Round2557-------squared error: 3.9157 parameter: [18.39795187  0.76001422 -1.8812683
-0.1748125 ]
Round2558-------squared error: 3.9157 parameter: [18.39795211  0.75993234 -1.8813443
5 -0.17480228]
Round2559-------squared error: 3.9157 parameter: [18.39795235  0.75985054 -1.8814203
1 -0.17479207]
Round2560-------squared error: 3.9157 parameter: [18.39795259  0.75976882 -1.8814962
-0.17478186]
```

```
Round2561-------squared error: 3.9157 parameter: [18.39795282  0.75968717 -1.8815720
2 -0.17477166]
Round2562-------squared error: 3.9157 parameter: [18.39795306  0.75960561 -1.8816477
6 -0.17476146]
Round2563-------squared error: 3.9156 parameter: [18.39795329  0.75952411 -1.8817234
2 -0.17475126]
Round2564-------squared error: 3.9156 parameter: [18.39795353  0.7594427  -1.8817990
1 -0.17474108]
Round2565-------squared error: 3.9156 parameter: [18.39795376  0.75936136 -1.8818745
2 -0.17473089]
Round2566-------squared error: 3.9156 parameter: [18.39795399  0.7592801  -1.8819499
6 -0.17472072]
Round2567-------squared error: 3.9156 parameter: [18.39795422  0.75919892 -1.8820253
2 -0.17471054]
Round2568-------squared error: 3.9156 parameter: [18.39795445  0.75911781 -1.8821006
1 -0.17470038]
Round2569-------squared error: 3.9156 parameter: [18.39795468  0.75903678 -1.8821758
3 -0.17469022]
Round2570-------squared error: 3.9156 parameter: [18.3979549   0.75895583 -1.8822509
6 -0.17468006]
Round2571-------squared error: 3.9156 parameter: [18.39795513  0.75887495 -1.8823260
3 -0.17466991]
Round2572-------squared error: 3.9156 parameter: [18.39795535  0.75879415 -1.8824010
2 -0.17465976]
Round2573-------squared error: 3.9156 parameter: [18.39795558  0.75871342 -1.8824759
3 -0.17464962]
Round2574-------squared error: 3.9156 parameter: [18.3979558   0.75863277 -1.8825507
7 -0.17463948]
Round2575-------squared error: 3.9156 parameter: [18.39795602  0.7585522  -1.8826255
4 -0.17462935]
Round2576-------squared error: 3.9156 parameter: [18.39795624  0.75847171 -1.8827002
3 -0.17461923]
Round2577-------squared error: 3.9156 parameter: [18.39795646  0.75839129 -1.8827748
5 -0.17460911]
Round2578-------squared error: 3.9156 parameter: [18.39795668  0.75831094 -1.8828493
9 -0.17459899]
Round2579-------squared error: 3.9156 parameter: [18.39795689  0.75823068 -1.8829238
6 -0.17458889]
Round2580-------squared error: 3.9156 parameter: [18.39795711  0.75815048 -1.8829982
6 -0.17457878]
Round2581-------squared error: 3.9156 parameter: [18.39795732  0.75807037 -1.8830725
8 -0.17456868]
Round2582-------squared error: 3.9156 parameter: [18.39795754  0.75799033 -1.8831468
2 -0.17455859]
Round2583-------squared error: 3.9156 parameter: [18.39795775  0.75791036 -1.883221
-0.1745485 ]
Round2584-------squared error: 3.9155 parameter: [18.39795796  0.75783048 -1.8832951
-0.17453842]
Round2585-------squared error: 3.9155 parameter: [18.39795817  0.75775066 -1.8833691
2 -0.17452834]
Round2586-------squared error: 3.9155 parameter: [18.39795838  0.75767092 -1.8834430
8 -0.17451827]
Round2587-------squared error: 3.9155 parameter: [18.39795859  0.75759126 -1.8835169
6 -0.1745082 ]
Round2588-------squared error: 3.9155 parameter: [18.39795879  0.75751168 -1.8835907
6 -0.17449814]
Round2589-------squared error: 3.9155 parameter: [18.397959    0.75743216 -1.8836645
-0.17448808]
Round2590-------squared error: 3.9155 parameter: [18.3979592   0.75735273 -1.8837381
6 -0.17447803]
Round2591-------squared error: 3.9155 parameter: [18.39795941  0.75727337 -1.8838117
4 -0.17446799]
Round2592-------squared error: 3.9155 parameter: [18.39795961  0.75719408 -1.8838852
6 -0.17445795]
```

```
Round2593-------squared error: 3.9155 parameter: [18.39795981  0.75711487 -1.8839587
-0.17444791]
Round2594-------squared error: 3.9155 parameter: [18.39796001  0.75703573 -1.8840320
6 -0.17443788]
Round2595-------squared error: 3.9155 parameter: [18.39796021  0.75695667 -1.8841053
6 -0.17442786]
Round2596-------squared error: 3.9155 parameter: [18.39796041  0.75687768 -1.8841785
8 -0.17441784]
Round2597-------squared error: 3.9155 parameter: [18.39796061  0.75679877 -1.8842517
3 -0.17440783]
Round2598-------squared error: 3.9155 parameter: [18.39796081  0.75671994 -1.8843248
1 -0.17439782]
Round2599-------squared error: 3.9155 parameter: [18.397961    0.75664117 -1.8843978
1 -0.17438782]
Round2600-------squared error: 3.9155 parameter: [18.3979612   0.75656249 -1.8844707
4 -0.17437782]
Round2601-------squared error: 3.9155 parameter: [18.39796139  0.75648387 -1.8845436
-0.17436783]
Round2602-------squared error: 3.9155 parameter: [18.39796159  0.75640533 -1.8846163
9 -0.17435785]
Round2603-------squared error: 3.9155 parameter: [18.39796178  0.75632687 -1.8846891
-0.17434787]
Round2604-------squared error: 3.9155 parameter: [18.39796197  0.75624848 -1.8847617
4 -0.17433789]
Round2605-------squared error: 3.9154 parameter: [18.39796216  0.75617016 -1.8848343
1 -0.17432792]
Round2606-------squared error: 3.9154 parameter: [18.39796235  0.75609192 -1.8849068
1 -0.17431796]
Round2607-------squared error: 3.9154 parameter: [18.39796254  0.75601375 -1.8849792
4 -0.174308  ]
Round2608-------squared error: 3.9154 parameter: [18.39796272  0.75593566 -1.8850515
9 -0.17429805]
Round2609-------squared error: 3.9154 parameter: [18.39796291  0.75585764 -1.8851238
8 -0.1742881 ]
Round2610-------squared error: 3.9154 parameter: [18.3979631   0.75577969 -1.8851960
9 -0.17427816]
Round2611-------squared error: 3.9154 parameter: [18.39796328  0.75570182 -1.8852682
3 -0.17426822]
Round2612-------squared error: 3.9154 parameter: [18.39796346  0.75562402 -1.8853403
-0.17425829]
Round2613-------squared error: 3.9154 parameter: [18.39796365  0.75554629 -1.8854122
9 -0.17424836]
Round2614-------squared error: 3.9154 parameter: [18.39796383  0.75546864 -1.8854842
2 -0.17423845]
Round2615-------squared error: 3.9154 parameter: [18.39796401  0.75539106 -1.8855560
7 -0.17422853]
Round2616-------squared error: 3.9154 parameter: [18.39796419  0.75531356 -1.8856278
5 -0.17421862]
Round2617-------squared error: 3.9154 parameter: [18.39796437  0.75523613 -1.8856995
7 -0.17420872]
Round2618-------squared error: 3.9154 parameter: [18.39796455  0.75515877 -1.8857712
1 -0.17419882]
Round2619-------squared error: 3.9154 parameter: [18.39796472  0.75508149 -1.8858427
8 -0.17418893]
Round2620-------squared error: 3.9154 parameter: [18.3979649   0.75500427 -1.8859142
7 -0.17417904]
Round2621-------squared error: 3.9154 parameter: [18.39796508  0.75492714 -1.8859857
-0.17416916]
Round2622-------squared error: 3.9154 parameter: [18.39796525  0.75485007 -1.8860570
6 -0.17415929]
Round2623-------squared error: 3.9154 parameter: [18.39796542  0.75477308 -1.8861283
4 -0.17414942]
Round2624-------squared error: 3.9154 parameter: [18.3979656   0.75469616 -1.8861995
6 -0.17413955]
```

```
Round2625-------squared error: 3.9154 parameter: [18.39796577  0.75461931 -1.8862707
-0.1741297 ]
Round2626-------squared error: 3.9154 parameter: [18.39796594  0.75454254 -1.8863417
8 -0.17411984]
Round2627-------squared error: 3.9153 parameter: [18.39796611  0.75446584 -1.8864127
8 -0.17411   ]
Round2628-------squared error: 3.9153 parameter: [18.39796628  0.75438921 -1.8864837
1 -0.17410015]
Round2629-------squared error: 3.9153 parameter: [18.39796645  0.75431265 -1.8865545
8 -0.17409032]
Round2630-------squared error: 3.9153 parameter: [18.39796662  0.75423617 -1.8866253
7 -0.17408049]
Round2631-------squared error: 3.9153 parameter: [18.39796678  0.75415976 -1.8866960
9 -0.17407066]
Round2632-------squared error: 3.9153 parameter: [18.39796695  0.75408342 -1.8867667
5 -0.17406084]
Round2633-------squared error: 3.9153 parameter: [18.39796711  0.75400715 -1.8868373
3 -0.17405103]
Round2634-------squared error: 3.9153 parameter: [18.39796728  0.75393096 -1.8869078
4 -0.17404122]
Round2635-------squared error: 3.9153 parameter: [18.39796744  0.75385484 -1.8869782
8 -0.17403142]
Round2636-------squared error: 3.9153 parameter: [18.39796761  0.75377879 -1.8870486
6 -0.17402163]
Round2637-------squared error: 3.9153 parameter: [18.39796777  0.75370281 -1.8871189
6 -0.17401183]
Round2638-------squared error: 3.9153 parameter: [18.39796793  0.75362691 -1.8871892
-0.17400205]
Round2639-------squared error: 3.9153 parameter: [18.39796809  0.75355107 -1.8872593
6 -0.17399227]
Round2640-------squared error: 3.9153 parameter: [18.39796825  0.75347531 -1.8873294
5 -0.1739825 ]
Round2641-------squared error: 3.9153 parameter: [18.39796841  0.75339962 -1.8873994
8 -0.17397273]
Round2642-------squared error: 3.9153 parameter: [18.39796857  0.753324   -1.8874694
4 -0.17396297]
Round2643-------squared error: 3.9153 parameter: [18.39796872  0.75324846 -1.8875393
2 -0.17395321]
Round2644-------squared error: 3.9153 parameter: [18.39796888  0.75317298 -1.8876091
4 -0.17394346]
Round2645-------squared error: 3.9153 parameter: [18.39796903  0.75309758 -1.8876788
9 -0.17393371]
Round2646-------squared error: 3.9153 parameter: [18.39796919  0.75302225 -1.8877485
7 -0.17392398]
Round2647-------squared error: 3.9153 parameter: [18.39796934  0.75294699 -1.8878181
8 -0.17391424]
Round2648-------squared error: 3.9153 parameter: [18.3979695   0.7528718  -1.8878877
2 -0.17390451]
Round2649-------squared error: 3.9153 parameter: [18.39796965  0.75279668 -1.8879571
9 -0.17389479]
Round2650-------squared error: 3.9153 parameter: [18.3979698   0.75272163 -1.8880266
-0.17388508]
Round2651-------squared error: 3.9152 parameter: [18.39796995  0.75264666 -1.8880959
3 -0.17387536]
Round2652-------squared error: 3.9152 parameter: [18.3979701   0.75257175 -1.8881652
-0.17386566]
Round2653-------squared error: 3.9152 parameter: [18.39797025  0.75249692 -1.8882344
-0.17385596]
Round2654-------squared error: 3.9152 parameter: [18.3979704   0.75242216 -1.8883035
3 -0.17384627]
Round2655-------squared error: 3.9152 parameter: [18.39797055  0.75234746 -1.8883725
9 -0.17383658]
Round2656-------squared error: 3.9152 parameter: [18.3979707   0.75227284 -1.8884415
8 -0.1738269 ]
```

```
Round2657-------squared error: 3.9152 parameter: [18.39797084  0.75219829 -1.8885105
1 -0.17381722]
Round2658-------squared error: 3.9152 parameter: [18.39797099  0.75212381 -1.8885793
6 -0.17380755]
Round2659-------squared error: 3.9152 parameter: [18.39797113  0.7520494  -1.8886481
5 -0.17379789]
Round2660-------squared error: 3.9152 parameter: [18.39797128  0.75197507 -1.8887168
7 -0.17378823]
Round2661-------squared error: 3.9152 parameter: [18.39797142  0.7519008  -1.8887855
2 -0.17377858]
Round2662-------squared error: 3.9152 parameter: [18.39797156  0.7518266  -1.8888541
1 -0.17376893]
Round2663-------squared error: 3.9152 parameter: [18.39797171  0.75175247 -1.8889226
2 -0.17375929]
Round2664-------squared error: 3.9152 parameter: [18.39797185  0.75167842 -1.8889910
7 -0.17374965]
Round2665-------squared error: 3.9152 parameter: [18.39797199  0.75160443 -1.8890594
5 -0.17374002]
Round2666-------squared error: 3.9152 parameter: [18.39797213  0.75153051 -1.8891277
7 -0.1737304 ]
Round2667-------squared error: 3.9152 parameter: [18.39797227  0.75145667 -1.8891960
1 -0.17372078]
Round2668-------squared error: 3.9152 parameter: [18.39797241  0.75138289 -1.8892641
9 -0.17371117]
Round2669-------squared error: 3.9152 parameter: [18.39797254  0.75130919 -1.8893323
-0.17370156]
Round2670-------squared error: 3.9152 parameter: [18.39797268  0.75123555 -1.8894003
5 -0.17369196]
Round2671-------squared error: 3.9152 parameter: [18.39797282  0.75116198 -1.8894683
2 -0.17368237]
Round2672-------squared error: 3.9152 parameter: [18.39797295  0.75108849 -1.8895362
3 -0.17367278]
Round2673-------squared error: 3.9152 parameter: [18.39797309  0.75101506 -1.8896040
7 -0.1736632 ]
Round2674-------squared error: 3.9152 parameter: [18.39797322  0.7509417  -1.8896718
5 -0.17365362]
Round2675-------squared error: 3.9151 parameter: [18.39797336  0.75086842 -1.8897395
6 -0.17364405]
Round2676-------squared error: 3.9151 parameter: [18.39797349  0.7507952  -1.8898072
-0.17363448]
Round2677-------squared error: 3.9151 parameter: [18.39797362  0.75072205 -1.8898747
7 -0.17362492]
Round2678-------squared error: 3.9151 parameter: [18.39797376  0.75064897 -1.8899422
8 -0.17361537]
Round2679-------squared error: 3.9151 parameter: [18.39797389  0.75057596 -1.8900097
2 -0.17360582]
Round2680-------squared error: 3.9151 parameter: [18.39797402  0.75050302 -1.8900770
9 -0.17359628]
Round2681-------squared error: 3.9151 parameter: [18.39797415  0.75043015 -1.8901444
-0.17358674]
Round2682-------squared error: 3.9151 parameter: [18.39797428  0.75035734 -1.8902116
4 -0.17357721]
Round2683-------squared error: 3.9151 parameter: [18.39797441  0.75028461 -1.8902788
2 -0.17356769]
Round2684-------squared error: 3.9151 parameter: [18.39797453  0.75021195 -1.8903459
3 -0.17355817]
Round2685-------squared error: 3.9151 parameter: [18.39797466  0.75013935 -1.8904129
7 -0.17354866]
Round2686-------squared error: 3.9151 parameter: [18.39797479  0.75006683 -1.8904799
4 -0.17353915]
Round2687-------squared error: 3.9151 parameter: [18.39797491  0.74999437 -1.8905468
5 -0.17352965]
Round2688-------squared error: 3.9151 parameter: [18.39797504  0.74992198 -1.8906137
-0.17352016]
```

```
Round2689-------squared error: 3.9151 parameter: [18.39797516  0.74984966 -1.8906804
7 -0.17351067]
Round2690-------squared error: 3.9151 parameter: [18.39797529  0.74977741 -1.8907471
8 -0.17350119]
Round2691-------squared error: 3.9151 parameter: [18.39797541  0.74970522 -1.8908138
3 -0.17349171]
Round2692-------squared error: 3.9151 parameter: [18.39797553  0.74963311 -1.8908804
1 -0.17348224]
Round2693-------squared error: 3.9151 parameter: [18.39797566  0.74956106 -1.8909469
2 -0.17347277]
Round2694-------squared error: 3.9151 parameter: [18.39797578  0.74948909 -1.8910133
7 -0.17346331]
Round2695-------squared error: 3.9151 parameter: [18.3979759   0.74941718 -1.8910797
5 -0.17345386]
Round2696-------squared error: 3.9151 parameter: [18.39797602  0.74934534 -1.8911460
7 -0.17344441]
Round2697-------squared error: 3.9151 parameter: [18.39797614  0.74927356 -1.8912123
2 -0.17343497]
Round2698-------squared error: 3.9151 parameter: [18.39797626  0.74920186 -1.8912785
1 -0.17342554]
Round2699-------squared error: 3.9151 parameter: [18.39797638  0.74913022 -1.8913446
3 -0.17341611]
Round2700-------squared error: 3.9150 parameter: [18.3979765   0.74905865 -1.8914106
9 -0.17340668]
Round2701-------squared error: 3.9150 parameter: [18.39797661  0.74898715 -1.8914766
8 -0.17339727]
Round2702-------squared error: 3.9150 parameter: [18.39797673  0.74891572 -1.8915426
-0.17338785]
Round2703-------squared error: 3.9150 parameter: [18.39797685  0.74884436 -1.8916084
6 -0.17337845]
Round2704-------squared error: 3.9150 parameter: [18.39797696  0.74877306 -1.8916742
6 -0.17336905]
Round2705-------squared error: 3.9150 parameter: [18.39797708  0.74870183 -1.8917399
9 -0.17335966]
Round2706-------squared error: 3.9150 parameter: [18.39797719  0.74863067 -1.8918056
5 -0.17335027]
Round2707-------squared error: 3.9150 parameter: [18.39797731  0.74855957 -1.8918712
5 -0.17334089]
Round2708-------squared error: 3.9150 parameter: [18.39797742  0.74848855 -1.8919367
9 -0.17333151]
Round2709-------squared error: 3.9150 parameter: [18.39797753  0.74841759 -1.8920022
6 -0.17332214]
Round2710-------squared error: 3.9150 parameter: [18.39797764  0.74834669 -1.8920676
7 -0.17331278]
Round2711-------squared error: 3.9150 parameter: [18.39797776  0.74827587 -1.8921330
1 -0.17330342]
Round2712-------squared error: 3.9150 parameter: [18.39797787  0.74820511 -1.8921982
9 -0.17329407]
Round2713-------squared error: 3.9150 parameter: [18.39797798  0.74813442 -1.8922635
-0.17328472]
Round2714-------squared error: 3.9150 parameter: [18.39797809  0.7480638  -1.8923286
5 -0.17327538]
Round2715-------squared error: 3.9150 parameter: [18.3979782   0.74799324 -1.8923937
3 -0.17326605]
Round2716-------squared error: 3.9150 parameter: [18.39797831  0.74792275 -1.8924587
5 -0.17325672]
Round2717-------squared error: 3.9150 parameter: [18.39797842  0.74785233 -1.8925237
1 -0.1732474 ]
Round2718-------squared error: 3.9150 parameter: [18.39797852  0.74778198 -1.8925886
-0.17323808]
Round2719-------squared error: 3.9150 parameter: [18.39797863  0.74771169 -1.8926534
3 -0.17322878]
Round2720-------squared error: 3.9150 parameter: [18.39797874  0.74764147 -1.8927181
9 -0.17321947]
```

```
Round2721-------squared error: 3.9150 parameter: [18.39797884  0.74757131 -1.8927828
9 -0.17321017]
Round2722-------squared error: 3.9150 parameter: [18.39797895  0.74750122 -1.8928475
3 -0.17320088]
Round2723-------squared error: 3.9150 parameter: [18.39797906  0.7474312  -1.8929121
-0.1731916 ]
Round2724-------squared error: 3.9150 parameter: [18.39797916  0.74736125 -1.8929766
1 -0.17318232]
Round2725-------squared error: 3.9150 parameter: [18.39797926  0.74729136 -1.8930410
6 -0.17317304]
Round2726-------squared error: 3.9150 parameter: [18.39797937  0.74722154 -1.8931054
4 -0.17316378]
Round2727-------squared error: 3.9149 parameter: [18.39797947  0.74715178 -1.8931697
6 -0.17315452]
Round2728-------squared error: 3.9149 parameter: [18.39797957  0.74708209 -1.8932340
1 -0.17314526]
Round2729-------squared error: 3.9149 parameter: [18.39797968  0.74701247 -1.8932982
-0.17313601]
Round2730-------squared error: 3.9149 parameter: [18.39797978  0.74694291 -1.8933623
3 -0.17312677]
Round2731-------squared error: 3.9149 parameter: [18.39797988  0.74687342 -1.8934264
-0.17311753]
Round2732-------squared error: 3.9149 parameter: [18.39797998  0.74680399 -1.8934904
-0.1731083 ]
Round2733-------squared error: 3.9149 parameter: [18.39798008  0.74673463 -1.8935543
4 -0.17309907]
Round2734-------squared error: 3.9149 parameter: [18.39798018  0.74666534 -1.8936182
1 -0.17308985]
Round2735-------squared error: 3.9149 parameter: [18.39798028  0.74659611 -1.8936820
2 -0.17308064]
Round2736-------squared error: 3.9149 parameter: [18.39798038  0.74652695 -1.8937457
7 -0.17307143]
Round2737-------squared error: 3.9149 parameter: [18.39798047  0.74645786 -1.8938094
6 -0.17306223]
Round2738-------squared error: 3.9149 parameter: [18.39798057  0.74638883 -1.8938730
9 -0.17305304]
Round2739-------squared error: 3.9149 parameter: [18.39798067  0.74631986 -1.8939366
5 -0.17304385]
Round2740-------squared error: 3.9149 parameter: [18.39798077  0.74625096 -1.8940001
5 -0.17303467]
Round2741-------squared error: 3.9149 parameter: [18.39798086  0.74618213 -1.8940635
8 -0.17302549]
Round2742-------squared error: 3.9149 parameter: [18.39798096  0.74611336 -1.8941269
6 -0.17301632]
Round2743-------squared error: 3.9149 parameter: [18.39798105  0.74604466 -1.8941902
7 -0.17300716]
Round2744-------squared error: 3.9149 parameter: [18.39798115  0.74597602 -1.8942535
2 -0.172998  ]
Round2745-------squared error: 3.9149 parameter: [18.39798124  0.74590745 -1.8943167
-0.17298885]
Round2746-------squared error: 3.9149 parameter: [18.39798134  0.74583894 -1.8943798
3 -0.1729797 ]
Round2747-------squared error: 3.9149 parameter: [18.39798143  0.7457705  -1.8944428
9 -0.17297056]
Round2748-------squared error: 3.9149 parameter: [18.39798152  0.74570212 -1.8945058
9 -0.17296143]
Round2749-------squared error: 3.9149 parameter: [18.39798161  0.74563381 -1.8945688
3 -0.1729523 ]
Round2750-------squared error: 3.9149 parameter: [18.39798171  0.74556556 -1.8946317
-0.17294318]
Round2751-------squared error: 3.9149 parameter: [18.3979818   0.74549738 -1.8946945
2 -0.17293406]
Round2752-------squared error: 3.9149 parameter: [18.39798189  0.74542926 -1.8947572
7 -0.17292495]
```

```
Round2753-------squared error: 3.9149 parameter: [18.39798198  0.74536121 -1.8948199
6 -0.17291585]
Round2754-------squared error: 3.9149 parameter: [18.39798207  0.74529322 -1.8948825
9 -0.17290675]
Round2755-------squared error: 3.9149 parameter: [18.39798216  0.7452253  -1.8949451
6 -0.17289766]
Round2756-------squared error: 3.9148 parameter: [18.39798225  0.74515744 -1.8950076
6 -0.17288857]
Round2757-------squared error: 3.9148 parameter: [18.39798234  0.74508965 -1.8950701
1 -0.17287949]
Round2758-------squared error: 3.9148 parameter: [18.39798243  0.74502192 -1.8951324
9 -0.17287042]
Round2759-------squared error: 3.9148 parameter: [18.39798251  0.74495425 -1.8951948
1 -0.17286135]
Round2760-------squared error: 3.9148 parameter: [18.3979826   0.74488665 -1.8952570
7 -0.17285229]
Round2761-------squared error: 3.9148 parameter: [18.39798269  0.74481911 -1.8953192
7 -0.17284324]
Round2762-------squared error: 3.9148 parameter: [18.39798277  0.74475164 -1.8953814
1 -0.17283419]
Round2763-------squared error: 3.9148 parameter: [18.39798286  0.74468423 -1.8954434
8 -0.17282515]
Round2764-------squared error: 3.9148 parameter: [18.39798295  0.74461689 -1.8955055
-0.17281611]
Round2765-------squared error: 3.9148 parameter: [18.39798303  0.74454961 -1.8955674
5 -0.17280708]
Round2766-------squared error: 3.9148 parameter: [18.39798312  0.74448239 -1.8956293
4 -0.17279806]
Round2767-------squared error: 3.9148 parameter: [18.3979832   0.74441524 -1.8956911
8 -0.17278904]
Round2768-------squared error: 3.9148 parameter: [18.39798328  0.74434815 -1.8957529
5 -0.17278003]
Round2769-------squared error: 3.9148 parameter: [18.39798337  0.74428113 -1.8958146
6 -0.17277102]
Round2770-------squared error: 3.9148 parameter: [18.39798345  0.74421417 -1.8958763
1 -0.17276202]
Round2771-------squared error: 3.9148 parameter: [18.39798353  0.74414727 -1.8959379
-0.17275303]
Round2772-------squared error: 3.9148 parameter: [18.39798362  0.74408044 -1.8959994
2 -0.17274404]
Round2773-------squared error: 3.9148 parameter: [18.3979837   0.74401367 -1.8960608
9 -0.17273506]
Round2774-------squared error: 3.9148 parameter: [18.39798378  0.74394696 -1.8961223
-0.17272608]
Round2775-------squared error: 3.9148 parameter: [18.39798386  0.74388032 -1.8961836
5 -0.17271712]
Round2776-------squared error: 3.9148 parameter: [18.39798394  0.74381374 -1.8962449
3 -0.17270815]
Round2777-------squared error: 3.9148 parameter: [18.39798402  0.74374722 -1.8963061
6 -0.1726992 ]
Round2778-------squared error: 3.9148 parameter: [18.3979841   0.74368077 -1.8963673
2 -0.17269025]
Round2779-------squared error: 3.9148 parameter: [18.39798418  0.74361438 -1.8964284
3 -0.1726813 ]
Round2780-------squared error: 3.9148 parameter: [18.39798426  0.74354805 -1.8964894
7 -0.17267236]
Round2781-------squared error: 3.9148 parameter: [18.39798434  0.74348179 -1.8965504
6 -0.17266343]
Round2782-------squared error: 3.9148 parameter: [18.39798442  0.74341559 -1.8966113
9 -0.1726545 ]
Round2783-------squared error: 3.9148 parameter: [18.3979845   0.74334945 -1.8966722
5 -0.17264558]
Round2784-------squared error: 3.9148 parameter: [18.39798457  0.74328338 -1.8967330
6 -0.17263667]
```

```
Round2785-------squared error: 3.9147 parameter: [18.39798465  0.74321736 -1.8967938
-0.17262776]
Round2786-------squared error: 3.9147 parameter: [18.39798473  0.74315141 -1.8968544
9 -0.17261886]
Round2787-------squared error: 3.9147 parameter: [18.3979848   0.74308553 -1.8969151
2 -0.17260997]
Round2788-------squared error: 3.9147 parameter: [18.39798488  0.74301971 -1.8969756
8 -0.17260108]
Round2789-------squared error: 3.9147 parameter: [18.39798495  0.74295394 -1.8970361
9 -0.17259219]
Round2790-------squared error: 3.9147 parameter: [18.39798503  0.74288825 -1.8970966
4 -0.17258332]
Round2791-------squared error: 3.9147 parameter: [18.3979851   0.74282261 -1.8971570
3 -0.17257445]
Round2792-------squared error: 3.9147 parameter: [18.39798518  0.74275704 -1.8972173
6 -0.17256558]
Round2793-------squared error: 3.9147 parameter: [18.39798525  0.74269153 -1.8972776
3 -0.17255672]
Round2794-------squared error: 3.9147 parameter: [18.39798533  0.74262608 -1.8973378
4 -0.17254787]
Round2795-------squared error: 3.9147 parameter: [18.3979854   0.74256069 -1.8973979
9 -0.17253903]
Round2796-------squared error: 3.9147 parameter: [18.39798547  0.74249537 -1.8974580
8 -0.17253019]
Round2797-------squared error: 3.9147 parameter: [18.39798555  0.74243011 -1.8975181
1 -0.17252135]
Round2798-------squared error: 3.9147 parameter: [18.39798562  0.74236491 -1.8975780
9 -0.17251253]
Round2799-------squared error: 3.9147 parameter: [18.39798569  0.74229977 -1.897638
-0.1725037 ]
Round2800-------squared error: 3.9147 parameter: [18.39798576  0.74223469 -1.8976978
6 -0.17249489]
Round2801-------squared error: 3.9147 parameter: [18.39798583  0.74216968 -1.8977576
5 -0.17248608]
Round2802-------squared error: 3.9147 parameter: [18.3979859   0.74210473 -1.8978173
9 -0.17247728]
Round2803-------squared error: 3.9147 parameter: [18.39798597  0.74203984 -1.8978770
7 -0.17246848]
Round2804-------squared error: 3.9147 parameter: [18.39798604  0.74197501 -1.8979366
9 -0.17245969]
Round2805-------squared error: 3.9147 parameter: [18.39798611  0.74191024 -1.8979962
6 -0.17245091]
Round2806-------squared error: 3.9147 parameter: [18.39798618  0.74184554 -1.8980557
6 -0.17244213]
Round2807-------squared error: 3.9147 parameter: [18.39798625  0.74178089 -1.8981152
1 -0.17243336]
Round2808-------squared error: 3.9147 parameter: [18.39798632  0.74171631 -1.8981745
9 -0.17242459]
Round2809-------squared error: 3.9147 parameter: [18.39798639  0.74165179 -1.8982339
2 -0.17241583]
Round2810-------squared error: 3.9147 parameter: [18.39798646  0.74158733 -1.8982931
9 -0.17240708]
Round2811-------squared error: 3.9147 parameter: [18.39798653  0.74152294 -1.8983524
1 -0.17239833]
Round2812-------squared error: 3.9147 parameter: [18.39798659  0.7414586  -1.8984115
6 -0.17238959]
Round2813-------squared error: 3.9147 parameter: [18.39798666  0.74139433 -1.8984706
6 -0.17238085]
Round2814-------squared error: 3.9147 parameter: [18.39798673  0.74133011 -1.8985296
9 -0.17237213]
Round2815-------squared error: 3.9147 parameter: [18.39798679  0.74126596 -1.8985886
7 -0.1723634 ]
Round2816-------squared error: 3.9147 parameter: [18.39798686  0.74120187 -1.8986476
-0.17235469]
```

```
Round2817-------squared error: 3.9146 parameter: [18.39798692  0.74113784 -1.8987064
6 -0.17234598]
Round2818-------squared error: 3.9146 parameter: [18.39798699  0.74107387 -1.8987652
7 -0.17233727]
Round2819-------squared error: 3.9146 parameter: [18.39798706  0.74100996 -1.8988240
1 -0.17232857]
Round2820-------squared error: 3.9146 parameter: [18.39798712  0.74094611 -1.8988827
1 -0.17231988]
Round2821-------squared error: 3.9146 parameter: [18.39798718  0.74088232 -1.8989413
4 -0.1723112 ]
Round2822-------squared error: 3.9146 parameter: [18.39798725  0.7408186  -1.8989999
1 -0.17230252]
Round2823-------squared error: 3.9146 parameter: [18.39798731  0.74075493 -1.8990584
3 -0.17229384]
Round2824-------squared error: 3.9146 parameter: [18.39798738  0.74069133 -1.8991168
9 -0.17228518]
Round2825-------squared error: 3.9146 parameter: [18.39798744  0.74062778 -1.8991753
-0.17227652]
Round2826-------squared error: 3.9146 parameter: [18.3979875   0.7405643  -1.8992336
4 -0.17226786]
Round2827-------squared error: 3.9146 parameter: [18.39798756  0.74050088 -1.8992919
3 -0.17225921]
Round2828-------squared error: 3.9146 parameter: [18.39798763  0.74043751 -1.8993501
6 -0.17225057]
Round2829-------squared error: 3.9146 parameter: [18.39798769  0.74037421 -1.8994083
4 -0.17224194]
Round2830-------squared error: 3.9146 parameter: [18.39798775  0.74031097 -1.8994664
5 -0.17223331]
Round2831-------squared error: 3.9146 parameter: [18.39798781  0.74024779 -1.8995245
1 -0.17222468]
Round2832-------squared error: 3.9146 parameter: [18.39798787  0.74018466 -1.8995825
2 -0.17221606]
Round2833-------squared error: 3.9146 parameter: [18.39798793  0.7401216  -1.8996404
6 -0.17220745]
Round2834-------squared error: 3.9146 parameter: [18.39798799  0.7400586  -1.8996983
5 -0.17219885]
Round2835-------squared error: 3.9146 parameter: [18.39798805  0.73999566 -1.8997561
8 -0.17219025]
Round2836-------squared error: 3.9146 parameter: [18.39798811  0.73993278 -1.8998139
6 -0.17218166]
Round2837-------squared error: 3.9146 parameter: [18.39798817  0.73986996 -1.8998716
8 -0.17217307]
Round2838-------squared error: 3.9146 parameter: [18.39798823  0.73980719 -1.8999293
4 -0.17216449]
Round2839-------squared error: 3.9146 parameter: [18.39798829  0.73974449 -1.8999869
5 -0.17215591]
Round2840-------squared error: 3.9146 parameter: [18.39798835  0.73968185 -1.9000444
9 -0.17214735]
Round2841-------squared error: 3.9146 parameter: [18.39798841  0.73961927 -1.9001019
9 -0.17213878]
Round2842-------squared error: 3.9146 parameter: [18.39798846  0.73955674 -1.9001594
2 -0.17213023]
Round2843-------squared error: 3.9146 parameter: [18.39798852  0.73949428 -1.9002168
-0.17212168]
Round2844-------squared error: 3.9146 parameter: [18.39798858  0.73943187 -1.9002741
3 -0.17211314]
Round2845-------squared error: 3.9146 parameter: [18.39798864  0.73936953 -1.9003313
9 -0.1721046 ]
Round2846-------squared error: 3.9146 parameter: [18.39798869  0.73930725 -1.9003886
-0.17209607]
Round2847-------squared error: 3.9146 parameter: [18.39798875  0.73924502 -1.9004457
6 -0.17208754]
Round2848-------squared error: 3.9146 parameter: [18.39798881  0.73918285 -1.9005028
6 -0.17207903]
```

```
Round2849-------squared error: 3.9146 parameter: [18.39798886  0.73912075 -1.9005599
-0.17207051]
Round2850-------squared error: 3.9146 parameter: [18.39798892  0.7390587  -1.9006168
9 -0.17206201]
Round2851-------squared error: 3.9145 parameter: [18.39798897  0.73899671 -1.9006738
2 -0.17205351]
Round2852-------squared error: 3.9145 parameter: [18.39798903  0.73893478 -1.9007306
9 -0.17204501]
Round2853-------squared error: 3.9145 parameter: [18.39798908  0.73887291 -1.9007875
1 -0.17203653]
Round2854-------squared error: 3.9145 parameter: [18.39798914  0.73881109 -1.9008442
8 -0.17202804]
Round2855-------squared error: 3.9145 parameter: [18.39798919  0.73874934 -1.9009009
8 -0.17201957]
Round2856-------squared error: 3.9145 parameter: [18.39798925  0.73868765 -1.9009576
4 -0.1720111 ]
Round2857-------squared error: 3.9145 parameter: [18.3979893   0.73862601 -1.9010142
3 -0.17200264]
Round2858-------squared error: 3.9145 parameter: [18.39798935  0.73856444 -1.9010707
7 -0.17199418]
Round2859-------squared error: 3.9145 parameter: [18.39798941  0.73850292 -1.9011272
6 -0.17198573]
Round2860-------squared error: 3.9145 parameter: [18.39798946  0.73844146 -1.9011836
9 -0.17197728]
Round2861-------squared error: 3.9145 parameter: [18.39798951  0.73838006 -1.9012400
7 -0.17196885]
Round2862-------squared error: 3.9145 parameter: [18.39798957  0.73831871 -1.9012963
9 -0.17196041]
Round2863-------squared error: 3.9145 parameter: [18.39798962  0.73825743 -1.9013526
5 -0.17195199]
Round2864-------squared error: 3.9145 parameter: [18.39798967  0.73819621 -1.9014088
6 -0.17194357]
Round2865-------squared error: 3.9145 parameter: [18.39798972  0.73813504 -1.9014650
1 -0.17193516]
Round2866-------squared error: 3.9145 parameter: [18.39798977  0.73807393 -1.9015211
1 -0.17192675]
Round2867-------squared error: 3.9145 parameter: [18.39798982  0.73801288 -1.9015771
6 -0.17191835]
Round2868-------squared error: 3.9145 parameter: [18.39798987  0.73795189 -1.9016331
5 -0.17190995]
Round2869-------squared error: 3.9145 parameter: [18.39798992  0.73789095 -1.9016890
8 -0.17190156]
Round2870-------squared error: 3.9145 parameter: [18.39798998  0.73783008 -1.9017449
6 -0.17189318]
Round2871-------squared error: 3.9145 parameter: [18.39799003  0.73776926 -1.9018007
8 -0.1718848 ]
Round2872-------squared error: 3.9145 parameter: [18.39799008  0.7377085  -1.9018565
5 -0.17187643]
Round2873-------squared error: 3.9145 parameter: [18.39799012  0.7376478  -1.9019122
7 -0.17186807]
Round2874-------squared error: 3.9145 parameter: [18.39799017  0.73758715 -1.9019679
3 -0.17185971]
Round2875-------squared error: 3.9145 parameter: [18.39799022  0.73752656 -1.9020235
4 -0.17185136]
Round2876-------squared error: 3.9145 parameter: [18.39799027  0.73746604 -1.9020790
9 -0.17184302]
Round2877-------squared error: 3.9145 parameter: [18.39799032  0.73740556 -1.9021345
8 -0.17183468]
Round2878-------squared error: 3.9145 parameter: [18.39799037  0.73734515 -1.9021900
3 -0.17182634]
Round2879-------squared error: 3.9145 parameter: [18.39799042  0.7372848  -1.9022454
1 -0.17181802]
Round2880-------squared error: 3.9145 parameter: [18.39799047  0.7372245  -1.9023007
5 -0.1718097 ]
```

```
Round2881-------squared error: 3.9145 parameter: [18.39799051  0.73716426 -1.9023560
3 -0.17180138]
Round2882-------squared error: 3.9145 parameter: [18.39799056  0.73710407 -1.9024112
5 -0.17179307]
Round2883-------squared error: 3.9145 parameter: [18.39799061  0.73704395 -1.9024664
3 -0.17178477]
Round2884-------squared error: 3.9145 parameter: [18.39799065  0.73698388 -1.9025215
4 -0.17177647]
Round2885-------squared error: 3.9145 parameter: [18.3979907   0.73692387 -1.9025766
1 -0.17176818]
Round2886-------squared error: 3.9145 parameter: [18.39799075  0.73686391 -1.9026316
2 -0.1717599 ]
Round2887-------squared error: 3.9144 parameter: [18.39799079  0.73680402 -1.9026865
7 -0.17175162]
Round2888-------squared error: 3.9144 parameter: [18.39799084  0.73674418 -1.9027414
7 -0.17174335]
Round2889-------squared error: 3.9144 parameter: [18.39799089  0.73668439 -1.9027963
2 -0.17173509]
Round2890-------squared error: 3.9144 parameter: [18.39799093  0.73662467 -1.9028511
2 -0.17172683]
Round2891-------squared error: 3.9144 parameter: [18.39799098  0.736565   -1.9029058
6 -0.17171858]
Round2892-------squared error: 3.9144 parameter: [18.39799102  0.73650539 -1.9029605
4 -0.17171033]
Round2893-------squared error: 3.9144 parameter: [18.39799107  0.73644583 -1.9030151
8 -0.17170209]
Round2894-------squared error: 3.9144 parameter: [18.39799111  0.73638633 -1.9030697
6 -0.17169385]
Round2895-------squared error: 3.9144 parameter: [18.39799116  0.73632689 -1.9031242
8 -0.17168563]
Round2896-------squared error: 3.9144 parameter: [18.3979912   0.73626751 -1.9031787
6 -0.1716774 ]
Round2897-------squared error: 3.9144 parameter: [18.39799124  0.73620818 -1.9032331
7 -0.17166919]
Round2898-------squared error: 3.9144 parameter: [18.39799129  0.73614891 -1.9032875
4 -0.17166098]
Round2899-------squared error: 3.9144 parameter: [18.39799133  0.73608969 -1.9033418
5 -0.17165277]
Round2900-------squared error: 3.9144 parameter: [18.39799137  0.73603053 -1.9033961
1 -0.17164458]
Round2901-------squared error: 3.9144 parameter: [18.39799142  0.73597143 -1.9034503
2 -0.17163639]
Round2902-------squared error: 3.9144 parameter: [18.39799146  0.73591238 -1.9035044
7 -0.1716282 ]
Round2903-------squared error: 3.9144 parameter: [18.3979915   0.7358534  -1.9035585
7 -0.17162002]
Round2904-------squared error: 3.9144 parameter: [18.39799155  0.73579446 -1.9036126
2 -0.17161185]
Round2905-------squared error: 3.9144 parameter: [18.39799159  0.73573559 -1.9036666
2 -0.17160368]
Round2906-------squared error: 3.9144 parameter: [18.39799163  0.73567676 -1.9037205
6 -0.17159552]
Round2907-------squared error: 3.9144 parameter: [18.39799167  0.735618   -1.9037744
5 -0.17158737]
Round2908-------squared error: 3.9144 parameter: [18.39799171  0.73555929 -1.9038282
8 -0.17157922]
Round2909-------squared error: 3.9144 parameter: [18.39799176  0.73550064 -1.9038820
7 -0.17157108]
Round2910-------squared error: 3.9144 parameter: [18.3979918   0.73544204 -1.9039358
-0.17156294]
Round2911-------squared error: 3.9144 parameter: [18.39799184  0.7353835  -1.9039894
8 -0.17155481]
Round2912-------squared error: 3.9144 parameter: [18.39799188  0.73532502 -1.9040431
-0.17154669]
```

```
Round2913-------squared error: 3.9144 parameter: [18.39799192  0.73526659 -1.9040966
8 -0.17153857]
Round2914-------squared error: 3.9144 parameter: [18.39799196  0.73520821 -1.9041502
-0.17153046]
Round2915-------squared error: 3.9144 parameter: [18.397992    0.7351499  -1.9042036
6 -0.17152236]
Round2916-------squared error: 3.9144 parameter: [18.39799204  0.73509163 -1.9042570
8 -0.17151426]
Round2917-------squared error: 3.9144 parameter: [18.39799208  0.73503343 -1.9043104
4 -0.17150616]
Round2918-------squared error: 3.9144 parameter: [18.39799212  0.73497528 -1.9043637
6 -0.17149808]
Round2919-------squared error: 3.9144 parameter: [18.39799216  0.73491718 -1.9044170
1 -0.17149   ]
Round2920-------squared error: 3.9144 parameter: [18.3979922   0.73485914 -1.9044702
2 -0.17148192]
Round2921-------squared error: 3.9144 parameter: [18.39799224  0.73480116 -1.9045233
8 -0.17147385]
Round2922-------squared error: 3.9144 parameter: [18.39799228  0.73474323 -1.9045764
8 -0.17146579]
Round2923-------squared error: 3.9144 parameter: [18.39799231  0.73468535 -1.9046295
3 -0.17145774]
Round2924-------squared error: 3.9144 parameter: [18.39799235  0.73462753 -1.9046825
3 -0.17144969]
Round2925-------squared error: 3.9144 parameter: [18.39799239  0.73456977 -1.9047354
8 -0.17144164]
Round2926-------squared error: 3.9143 parameter: [18.39799243  0.73451206 -1.9047883
7 -0.17143361]
Round2927-------squared error: 3.9143 parameter: [18.39799247  0.73445441 -1.9048412
2 -0.17142557]
Round2928-------squared error: 3.9143 parameter: [18.3979925   0.73439681 -1.9048940
1 -0.17141755]
Round2929-------squared error: 3.9143 parameter: [18.39799254  0.73433927 -1.9049467
5 -0.17140953]
Round2930-------squared error: 3.9143 parameter: [18.39799258  0.73428178 -1.9049994
4 -0.17140152]
Round2931-------squared error: 3.9143 parameter: [18.39799262  0.73422434 -1.9050520
8 -0.17139351]
Round2932-------squared error: 3.9143 parameter: [18.39799265  0.73416696 -1.9051046
6 -0.17138551]
Round2933-------squared error: 3.9143 parameter: [18.39799269  0.73410964 -1.9051571
9 -0.17137751]
Round2934-------squared error: 3.9143 parameter: [18.39799273  0.73405237 -1.9052096
8 -0.17136953]
Round2935-------squared error: 3.9143 parameter: [18.39799276  0.73399516 -1.9052621
1 -0.17136154]
Round2936-------squared error: 3.9143 parameter: [18.3979928   0.733938   -1.9053144
9 -0.17135357]
Round2937-------squared error: 3.9143 parameter: [18.39799283  0.73388089 -1.9053668
2 -0.1713456 ]
Round2938-------squared error: 3.9143 parameter: [18.39799287  0.73382384 -1.9054191
-0.17133763]
Round2939-------squared error: 3.9143 parameter: [18.39799291  0.73376684 -1.9054713
2 -0.17132968]
Round2940-------squared error: 3.9143 parameter: [18.39799294  0.7337099  -1.9055235
-0.17132172]
Round2941-------squared error: 3.9143 parameter: [18.39799298  0.73365301 -1.9055756
2 -0.17131378]
Round2942-------squared error: 3.9143 parameter: [18.39799301  0.73359618 -1.9056277
-0.17130584]
Round2943-------squared error: 3.9143 parameter: [18.39799305  0.7335394  -1.9056797
2 -0.17129791]
Round2944-------squared error: 3.9143 parameter: [18.39799308  0.73348267 -1.9057316
9 -0.17128998]
```

```
Round2945-------squared error: 3.9143 parameter: [18.39799312  0.733426   -1.9057836
1 -0.17128206]
Round2946-------squared error: 3.9143 parameter: [18.39799315  0.73336939 -1.9058354
8 -0.17127414]
Round2947-------squared error: 3.9143 parameter: [18.39799319  0.73331282 -1.9058873
-0.17126623]
Round2948-------squared error: 3.9143 parameter: [18.39799322  0.73325631 -1.9059390
7 -0.17125833]
Round2949-------squared error: 3.9143 parameter: [18.39799325  0.73319986 -1.9059907
9 -0.17125043]
Round2950-------squared error: 3.9143 parameter: [18.39799329  0.73314346 -1.9060424
6 -0.17124254]
Round2951-------squared error: 3.9143 parameter: [18.39799332  0.73308711 -1.9060940
7 -0.17123466]
Round2952-------squared error: 3.9143 parameter: [18.39799335  0.73303082 -1.9061456
4 -0.17122678]
Round2953-------squared error: 3.9143 parameter: [18.39799339  0.73297458 -1.9061971
5 -0.17121891]
Round2954-------squared error: 3.9143 parameter: [18.39799342  0.73291839 -1.9062486
2 -0.17121104]
Round2955-------squared error: 3.9143 parameter: [18.39799345  0.73286226 -1.9063000
4 -0.17120318]
Round2956-------squared error: 3.9143 parameter: [18.39799349  0.73280618 -1.9063514
-0.17119533]
Round2957-------squared error: 3.9143 parameter: [18.39799352  0.73275016 -1.9064027
2 -0.17118748]
Round2958-------squared error: 3.9143 parameter: [18.39799355  0.73269418 -1.9064539
8 -0.17117964]
Round2959-------squared error: 3.9143 parameter: [18.39799358  0.73263827 -1.9065051
9 -0.1711718 ]
Round2960-------squared error: 3.9143 parameter: [18.39799362  0.7325824  -1.9065563
6 -0.17116397]
Round2961-------squared error: 3.9143 parameter: [18.39799365  0.73252659 -1.9066074
7 -0.17115615]
Round2962-------squared error: 3.9143 parameter: [18.39799368  0.73247083 -1.9066585
4 -0.17114833]
Round2963-------squared error: 3.9143 parameter: [18.39799371  0.73241513 -1.9067095
5 -0.17114052]
Round2964-------squared error: 3.9143 parameter: [18.39799374  0.73235947 -1.9067605
2 -0.17113271]
Round2965-------squared error: 3.9143 parameter: [18.39799377  0.73230387 -1.9068114
3 -0.17112492]
Round2966-------squared error: 3.9143 parameter: [18.3979938   0.73224833 -1.9068623
-0.17111712]
Round2967-------squared error: 3.9143 parameter: [18.39799384  0.73219284 -1.9069131
1 -0.17110933]
Round2968-------squared error: 3.9142 parameter: [18.39799387  0.7321374  -1.9069638
8 -0.17110155]
Round2969-------squared error: 3.9142 parameter: [18.3979939   0.73208201 -1.9070146
-0.17109378]
Round2970-------squared error: 3.9142 parameter: [18.39799393  0.73202668 -1.9070652
6 -0.17108601]
Round2971-------squared error: 3.9142 parameter: [18.39799396  0.7319714  -1.9071158
8 -0.17107825]
Round2972-------squared error: 3.9142 parameter: [18.39799399  0.73191617 -1.9071664
5 -0.17107049]
Round2973-------squared error: 3.9142 parameter: [18.39799402  0.73186099 -1.9072169
6 -0.17106274]
Round2974-------squared error: 3.9142 parameter: [18.39799405  0.73180587 -1.9072674
3 -0.171055  ]
Round2975-------squared error: 3.9142 parameter: [18.39799408  0.7317508  -1.9073178
5 -0.17104726]
Round2976-------squared error: 3.9142 parameter: [18.39799411  0.73169578 -1.9073682
2 -0.17103952]
```

```
Round2977-------squared error: 3.9142 parameter: [18.39799414  0.73164082 -1.9074185
4 -0.1710318 ]
Round2978-------squared error: 3.9142 parameter: [18.39799417  0.73158591 -1.9074688
2 -0.17102408]
Round2979-------squared error: 3.9142 parameter: [18.3979942   0.73153105 -1.9075190
4 -0.17101636]
Round2980-------squared error: 3.9142 parameter: [18.39799422  0.73147624 -1.9075692
1 -0.17100865]
Round2981-------squared error: 3.9142 parameter: [18.39799425  0.73142148 -1.9076193
4 -0.17100095]
Round2982-------squared error: 3.9142 parameter: [18.39799428  0.73136678 -1.9076694
1 -0.17099326]
Round2983-------squared error: 3.9142 parameter: [18.39799431  0.73131213 -1.9077194
4 -0.17098557]
Round2984-------squared error: 3.9142 parameter: [18.39799434  0.73125753 -1.9077694
2 -0.17097788]
Round2985-------squared error: 3.9142 parameter: [18.39799437  0.73120298 -1.9078193
5 -0.1709702 ]
Round2986-------squared error: 3.9142 parameter: [18.3979944   0.73114849 -1.9078692
3 -0.17096253]
Round2987-------squared error: 3.9142 parameter: [18.39799442  0.73109405 -1.9079190
6 -0.17095487]
Round2988-------squared error: 3.9142 parameter: [18.39799445  0.73103966 -1.9079688
4 -0.17094721]
Round2989-------squared error: 3.9142 parameter: [18.39799448  0.73098532 -1.9080185
8 -0.17093955]
Round2990-------squared error: 3.9142 parameter: [18.39799451  0.73093103 -1.9080682
6 -0.17093191]
Round2991-------squared error: 3.9142 parameter: [18.39799453  0.7308768  -1.9081179
-0.17092426]
Round2992-------squared error: 3.9142 parameter: [18.39799456  0.73082262 -1.9081674
9 -0.17091663]
Round2993-------squared error: 3.9142 parameter: [18.39799459  0.73076849 -1.9082170
3 -0.170909  ]
Round2994-------squared error: 3.9142 parameter: [18.39799462  0.73071441 -1.9082665
2 -0.17090137]
Round2995-------squared error: 3.9142 parameter: [18.39799464  0.73066038 -1.9083159
6 -0.17089376]
Round2996-------squared error: 3.9142 parameter: [18.39799467  0.7306064  -1.9083653
6 -0.17088614]
Round2997-------squared error: 3.9142 parameter: [18.3979947   0.73055248 -1.9084147
1 -0.17087854]
Round2998-------squared error: 3.9142 parameter: [18.39799472  0.73049861 -1.908464
-0.17087094]
Round2999-------squared error: 3.9142 parameter: [18.39799475  0.73044479 -1.9085132
5 -0.17086335]
Round3000-------squared error: 3.9142 parameter: [18.39799478  0.73039102 -1.9085624
6 -0.17085576]
Round3001-------squared error: 3.9142 parameter: [18.3979948   0.7303373  -1.9086116
1 -0.17084818]
Round3002-------squared error: 3.9142 parameter: [18.39799483  0.73028363 -1.9086607
2 -0.1708406 ]
Round3003-------squared error: 3.9142 parameter: [18.39799485  0.73023002 -1.9087097
8 -0.17083303]
Round3004-------squared error: 3.9142 parameter: [18.39799488  0.73017645 -1.9087587
9 -0.17082547]
Round3005-------squared error: 3.9142 parameter: [18.3979949   0.73012294 -1.9088077
5 -0.17081791]
Round3006-------squared error: 3.9142 parameter: [18.39799493  0.73006947 -1.9088566
7 -0.17081036]
Round3007-------squared error: 3.9142 parameter: [18.39799496  0.73001606 -1.9089055
3 -0.17080281]
Round3008-------squared error: 3.9142 parameter: [18.39799498  0.7299627  -1.9089543
5 -0.17079527]
```

```
Round3009-------squared error: 3.9142 parameter: [18.39799501  0.72990939 -1.9090031
2 -0.17078774]
Round3010-------squared error: 3.9142 parameter: [18.39799503  0.72985614 -1.9090518
5 -0.17078021]
Round3011-------squared error: 3.9142 parameter: [18.39799506  0.72980293 -1.9091005
3 -0.17077269]
Round3012-------squared error: 3.9142 parameter: [18.39799508  0.72974977 -1.9091491
5 -0.17076518]
Round3013-------squared error: 3.9142 parameter: [18.3979951   0.72969667 -1.9091977
4 -0.17075767]
Round3014-------squared error: 3.9141 parameter: [18.39799513  0.72964361 -1.9092462
7 -0.17075016]
Round3015-------squared error: 3.9141 parameter: [18.39799515  0.72959061 -1.9092947
6 -0.17074267]
Round3016-------squared error: 3.9141 parameter: [18.39799518  0.72953765 -1.9093432
-0.17073517]
Round3017-------squared error: 3.9141 parameter: [18.3979952   0.72948475 -1.9093915
9 -0.17072769]
Round3018-------squared error: 3.9141 parameter: [18.39799523  0.7294319  -1.9094399
3 -0.17072021]
Round3019-------squared error: 3.9141 parameter: [18.39799525  0.7293791  -1.9094882
3 -0.17071274]
Round3020-------squared error: 3.9141 parameter: [18.39799527  0.72932635 -1.9095364
8 -0.17070527]
Round3021-------squared error: 3.9141 parameter: [18.3979953   0.72927364 -1.9095846
9 -0.17069781]
Round3022-------squared error: 3.9141 parameter: [18.39799532  0.72922099 -1.9096328
4 -0.17069035]
Round3023-------squared error: 3.9141 parameter: [18.39799534  0.72916839 -1.9096809
5 -0.1706829 ]
Round3024-------squared error: 3.9141 parameter: [18.39799537  0.72911584 -1.9097290
2 -0.17067546]
Round3025-------squared error: 3.9141 parameter: [18.39799539  0.72906334 -1.9097770
3 -0.17066802]
Round3026-------squared error: 3.9141 parameter: [18.39799541  0.72901089 -1.909825
-0.17066059]
Round3027-------squared error: 3.9141 parameter: [18.39799544  0.72895849 -1.9098729
2 -0.17065316]
Round3028-------squared error: 3.9141 parameter: [18.39799546  0.72890614 -1.9099208
-0.17064574]
Round3029-------squared error: 3.9141 parameter: [18.39799548  0.72885385 -1.9099686
3 -0.17063833]
Round3030-------squared error: 3.9141 parameter: [18.3979955   0.7288016  -1.9100164
1 -0.17063092]
Round3031-------squared error: 3.9141 parameter: [18.39799553  0.7287494  -1.9100641
4 -0.17062352]
Round3032-------squared error: 3.9141 parameter: [18.39799555  0.72869725 -1.9101118
3 -0.17061612]
Round3033-------squared error: 3.9141 parameter: [18.39799557  0.72864515 -1.9101594
7 -0.17060873]
Round3034-------squared error: 3.9141 parameter: [18.39799559  0.7285931  -1.9102070
7 -0.17060135]
Round3035-------squared error: 3.9141 parameter: [18.39799562  0.7285411  -1.9102546
2 -0.17059397]
Round3036-------squared error: 3.9141 parameter: [18.39799564  0.72848915 -1.9103021
2 -0.1705866 ]
Round3037-------squared error: 3.9141 parameter: [18.39799566  0.72843725 -1.9103495
8 -0.17057923]
Round3038-------squared error: 3.9141 parameter: [18.39799568  0.72838539 -1.9103969
9 -0.17057187]
Round3039-------squared error: 3.9141 parameter: [18.3979957   0.72833359 -1.9104443
5 -0.17056451]
Round3040-------squared error: 3.9141 parameter: [18.39799572  0.72828184 -1.9104916
7 -0.17055717]
```

```
Round3041-------squared error: 3.9141 parameter: [18.39799575  0.72823014 -1.9105389
4 -0.17054982]
Round3042-------squared error: 3.9141 parameter: [18.39799577  0.72817849 -1.9105861
7 -0.17054249]
Round3043-------squared error: 3.9141 parameter: [18.39799579  0.72812688 -1.9106333
5 -0.17053516]
Round3044-------squared error: 3.9141 parameter: [18.39799581  0.72807533 -1.9106804
8 -0.17052783]
Round3045-------squared error: 3.9141 parameter: [18.39799583  0.72802382 -1.9107275
7 -0.17052051]
Round3046-------squared error: 3.9141 parameter: [18.39799585  0.72797237 -1.9107746
1 -0.1705132 ]
Round3047-------squared error: 3.9141 parameter: [18.39799587  0.72792096 -1.9108216
1 -0.17050589]
Round3048-------squared error: 3.9141 parameter: [18.39799589  0.7278696  -1.9108685
6 -0.17049859]
Round3049-------squared error: 3.9141 parameter: [18.39799591  0.72781829 -1.9109154
6 -0.17049129]
Round3050-------squared error: 3.9141 parameter: [18.39799593  0.72776703 -1.9109623
2 -0.17048401]
Round3051-------squared error: 3.9141 parameter: [18.39799595  0.72771582 -1.9110091
3 -0.17047672]
Round3052-------squared error: 3.9141 parameter: [18.39799597  0.72766466 -1.9110559
-0.17046944]
Round3053-------squared error: 3.9141 parameter: [18.39799599  0.72761355 -1.9111026
2 -0.17046217]
Round3054-------squared error: 3.9141 parameter: [18.39799601  0.72756249 -1.9111493
-0.17045491]
Round3055-------squared error: 3.9141 parameter: [18.39799603  0.72751147 -1.9111959
3 -0.17044765]
Round3056-------squared error: 3.9141 parameter: [18.39799605  0.72746051 -1.9112425
1 -0.17044039]
Round3057-------squared error: 3.9141 parameter: [18.39799607  0.72740959 -1.9112890
5 -0.17043314]
Round3058-------squared error: 3.9141 parameter: [18.39799609  0.72735872 -1.9113355
5 -0.1704259 ]
Round3059-------squared error: 3.9141 parameter: [18.39799611  0.7273079  -1.9113819
9 -0.17041867]
Round3060-------squared error: 3.9141 parameter: [18.39799613  0.72725713 -1.9114284
-0.17041143]
Round3061-------squared error: 3.9141 parameter: [18.39799615  0.72720641 -1.9114747
6 -0.17040421]
Round3062-------squared error: 3.9141 parameter: [18.39799617  0.72715573 -1.9115210
7 -0.17039699]
Round3063-------squared error: 3.9141 parameter: [18.39799619  0.7271051  -1.9115673
4 -0.17038978]
Round3064-------squared error: 3.9140 parameter: [18.39799621  0.72705453 -1.9116135
6 -0.17038257]
Round3065-------squared error: 3.9140 parameter: [18.39799623  0.727004   -1.9116597
4 -0.17037537]
Round3066-------squared error: 3.9140 parameter: [18.39799625  0.72695352 -1.9117058
7 -0.17036817]
Round3067-------squared error: 3.9140 parameter: [18.39799627  0.72690309 -1.9117519
6 -0.17036099]
Round3068-------squared error: 3.9140 parameter: [18.39799628  0.7268527  -1.911798
-0.1703538 ]
Round3069-------squared error: 3.9140 parameter: [18.3979963   0.72680237 -1.911844
-0.17034662]
Round3070-------squared error: 3.9140 parameter: [18.39799632  0.72675208 -1.9118899
5 -0.17033945]
Round3071-------squared error: 3.9140 parameter: [18.39799634  0.72670184 -1.9119358
6 -0.17033229]
Round3072-------squared error: 3.9140 parameter: [18.39799636  0.72665165 -1.9119817
2 -0.17032513]
```

```
Round3073-------squared error: 3.9140 parameter: [18.39799638  0.7266015  -1.9120275
4 -0.17031797]
Round3074-------squared error: 3.9140 parameter: [18.39799639  0.72655141 -1.9120733
2 -0.17031082]
Round3075-------squared error: 3.9140 parameter: [18.39799641  0.72650136 -1.9121190
5 -0.17030368]
Round3076-------squared error: 3.9140 parameter: [18.39799643  0.72645136 -1.9121647
3 -0.17029654]
Round3077-------squared error: 3.9140 parameter: [18.39799645  0.72640141 -1.9122103
7 -0.17028941]
Round3078-------squared error: 3.9140 parameter: [18.39799647  0.7263515  -1.9122559
7 -0.17028229]
Round3079-------squared error: 3.9140 parameter: [18.39799648  0.72630165 -1.9123015
2 -0.17027517]
Round3080-------squared error: 3.9140 parameter: [18.3979965   0.72625184 -1.9123470
3 -0.17026806]
Round3081-------squared error: 3.9140 parameter: [18.39799652  0.72620207 -1.9123924
9 -0.17026095]
Round3082-------squared error: 3.9140 parameter: [18.39799654  0.72615236 -1.9124379
1 -0.17025385]
Round3083-------squared error: 3.9140 parameter: [18.39799655  0.7261027  -1.9124832
8 -0.17024675]
Round3084-------squared error: 3.9140 parameter: [18.39799657  0.72605308 -1.9125286
1 -0.17023966]
Round3085-------squared error: 3.9140 parameter: [18.39799659  0.72600351 -1.9125739
-0.17023258]
Round3086-------squared error: 3.9140 parameter: [18.3979966   0.72595398 -1.9126191
4 -0.1702255 ]
Round3087-------squared error: 3.9140 parameter: [18.39799662  0.72590451 -1.9126643
4 -0.17021842]
Round3088-------squared error: 3.9140 parameter: [18.39799664  0.72585508 -1.9127094
9 -0.17021136]
Round3089-------squared error: 3.9140 parameter: [18.39799666  0.72580569 -1.9127546
-0.1702043 ]
Round3090-------squared error: 3.9140 parameter: [18.39799667  0.72575636 -1.9127996
6 -0.17019724]
Round3091-------squared error: 3.9140 parameter: [18.39799669  0.72570707 -1.9128446
9 -0.17019019]
Round3092-------squared error: 3.9140 parameter: [18.39799671  0.72565783 -1.9128896
6 -0.17018315]
Round3093-------squared error: 3.9140 parameter: [18.39799672  0.72560864 -1.9129346
-0.17017611]
Round3094-------squared error: 3.9140 parameter: [18.39799674  0.72555949 -1.9129794
9 -0.17016908]
Round3095-------squared error: 3.9140 parameter: [18.39799675  0.72551039 -1.9130243
3 -0.17016205]
Round3096-------squared error: 3.9140 parameter: [18.39799677  0.72546134 -1.9130691
4 -0.17015503]
Round3097-------squared error: 3.9140 parameter: [18.39799679  0.72541234 -1.9131139
-0.17014802]
Round3098-------squared error: 3.9140 parameter: [18.3979968   0.72536338 -1.9131586
1 -0.17014101]
Round3099-------squared error: 3.9140 parameter: [18.39799682  0.72531447 -1.9132032
8 -0.170134  ]
Round3100-------squared error: 3.9140 parameter: [18.39799683  0.7252656  -1.9132479
1 -0.17012701]
Round3101-------squared error: 3.9140 parameter: [18.39799685  0.72521679 -1.9132925
-0.17012002]
Round3102-------squared error: 3.9140 parameter: [18.39799687  0.72516801 -1.9133370
4 -0.17011303]
Round3103-------squared error: 3.9140 parameter: [18.39799688  0.72511929 -1.9133815
4 -0.17010605]
Round3104-------squared error: 3.9140 parameter: [18.3979969   0.72507061 -1.9134259
9 -0.17009908]
```

```
Round3105-------squared error: 3.9140 parameter: [18.39799691  0.72502198 -1.9134704
-0.17009211]
Round3106-------squared error: 3.9140 parameter: [18.39799693  0.7249734  -1.9135147
7 -0.17008514]
Round3107-------squared error: 3.9140 parameter: [18.39799694  0.72492486 -1.9135591
-0.17007819]
Round3108-------squared error: 3.9140 parameter: [18.39799696  0.72487637 -1.9136033
8 -0.17007124]
Round3109-------squared error: 3.9140 parameter: [18.39799697  0.72482792 -1.9136476
2 -0.17006429]
Round3110-------squared error: 3.9140 parameter: [18.39799699  0.72477952 -1.9136918
1 -0.17005735]
Round3111-------squared error: 3.9140 parameter: [18.397997    0.72473117 -1.9137359
7 -0.17005042]
Round3112-------squared error: 3.9140 parameter: [18.39799702  0.72468286 -1.9137800
8 -0.17004349]
Round3113-------squared error: 3.9140 parameter: [18.39799703  0.7246346  -1.9138241
4 -0.17003657]
Round3114-------squared error: 3.9140 parameter: [18.39799705  0.72458639 -1.9138681
7 -0.17002965]
Round3115-------squared error: 3.9140 parameter: [18.39799706  0.72453822 -1.9139121
5 -0.17002274]
Round3116-------squared error: 3.9140 parameter: [18.39799708  0.7244901  -1.9139560
9 -0.17001583]
Round3117-------squared error: 3.9140 parameter: [18.39799709  0.72444202 -1.9139999
8 -0.17000893]
Round3118-------squared error: 3.9140 parameter: [18.39799711  0.72439399 -1.9140438
3 -0.17000204]
Round3119-------squared error: 3.9140 parameter: [18.39799712  0.72434601 -1.9140876
4 -0.16999515]
Round3120-------squared error: 3.9139 parameter: [18.39799714  0.72429807 -1.9141314
1 -0.16998827]
Round3121-------squared error: 3.9139 parameter: [18.39799715  0.72425018 -1.9141751
4 -0.16998139]
Round3122-------squared error: 3.9139 parameter: [18.39799717  0.72420233 -1.9142188
2 -0.16997452]
Round3123-------squared error: 3.9139 parameter: [18.39799718  0.72415453 -1.9142624
6 -0.16996766]
Round3124-------squared error: 3.9139 parameter: [18.39799719  0.72410678 -1.9143060
6 -0.1699608 ]
Round3125-------squared error: 3.9139 parameter: [18.39799721  0.72405907 -1.9143496
1 -0.16995394]
Round3126-------squared error: 3.9139 parameter: [18.39799722  0.72401141 -1.9143931
2 -0.16994709]
Round3127-------squared error: 3.9139 parameter: [18.39799724  0.72396379 -1.9144365
9 -0.16994025]
Round3128-------squared error: 3.9139 parameter: [18.39799725  0.72391622 -1.9144800
2 -0.16993341]
Round3129-------squared error: 3.9139 parameter: [18.39799726  0.72386869 -1.9145234
-0.16992658]
Round3130-------squared error: 3.9139 parameter: [18.39799728  0.72382121 -1.9145667
5 -0.16991976]
Round3131-------squared error: 3.9139 parameter: [18.39799729  0.72377377 -1.9146100
5 -0.16991294]
Round3132-------squared error: 3.9139 parameter: [18.3979973   0.72372638 -1.9146533
1 -0.16990612]
Round3133-------squared error: 3.9139 parameter: [18.39799732  0.72367904 -1.9146965
2 -0.16989932]
Round3134-------squared error: 3.9139 parameter: [18.39799733  0.72363174 -1.9147397
-0.16989251]
Round3135-------squared error: 3.9139 parameter: [18.39799734  0.72358449 -1.9147828
3 -0.16988572]
Round3136-------squared error: 3.9139 parameter: [18.39799736  0.72353728 -1.9148259
2 -0.16987893]
```

```
Round3137-------squared error: 3.9139 parameter: [18.39799737  0.72349011 -1.9148689
7 -0.16987214]
Round3138-------squared error: 3.9139 parameter: [18.39799738  0.72344299 -1.9149119
8 -0.16986536]
Round3139-------squared error: 3.9139 parameter: [18.3979974   0.72339592 -1.9149549
4 -0.16985859]
Round3140-------squared error: 3.9139 parameter: [18.39799741  0.72334889 -1.9149978
6 -0.16985182]
Round3141-------squared error: 3.9139 parameter: [18.39799742  0.72330191 -1.9150407
5 -0.16984505]
Round3142-------squared error: 3.9139 parameter: [18.39799744  0.72325497 -1.9150835
9 -0.1698383 ]
Round3143-------squared error: 3.9139 parameter: [18.39799745  0.72320808 -1.9151263
8 -0.16983155]
Round3144-------squared error: 3.9139 parameter: [18.39799746  0.72316123 -1.9151691
4 -0.1698248 ]
Round3145-------squared error: 3.9139 parameter: [18.39799747  0.72311442 -1.9152118
5 -0.16981806]
Round3146-------squared error: 3.9139 parameter: [18.39799749  0.72306767 -1.9152545
3 -0.16981132]
Round3147-------squared error: 3.9139 parameter: [18.3979975   0.72302095 -1.9152971
6 -0.1698046 ]
Round3148-------squared error: 3.9139 parameter: [18.39799751  0.72297428 -1.9153397
5 -0.16979787]
Round3149-------squared error: 3.9139 parameter: [18.39799752  0.72292766 -1.9153823
-0.16979115]
Round3150-------squared error: 3.9139 parameter: [18.39799754  0.72288108 -1.9154248
-0.16978444]
Round3151-------squared error: 3.9139 parameter: [18.39799755  0.72283454 -1.9154672
7 -0.16977774]
Round3152-------squared error: 3.9139 parameter: [18.39799756  0.72278805 -1.9155096
9 -0.16977103]
Round3153-------squared error: 3.9139 parameter: [18.39799757  0.7227416  -1.9155520
8 -0.16976434]
Round3154-------squared error: 3.9139 parameter: [18.39799759  0.7226952  -1.9155944
2 -0.16975765]
Round3155-------squared error: 3.9139 parameter: [18.3979976   0.72264884 -1.9156367
2 -0.16975097]
Round3156-------squared error: 3.9139 parameter: [18.39799761  0.72260253 -1.9156789
8 -0.16974429]
Round3157-------squared error: 3.9139 parameter: [18.39799762  0.72255626 -1.9157212
-0.16973761]
Round3158-------squared error: 3.9139 parameter: [18.39799763  0.72251004 -1.9157633
8 -0.16973095]
Round3159-------squared error: 3.9139 parameter: [18.39799765  0.72246386 -1.9158055
1 -0.16972429]
Round3160-------squared error: 3.9139 parameter: [18.39799766  0.72241772 -1.9158476
1 -0.16971763]
Round3161-------squared error: 3.9139 parameter: [18.39799767  0.72237163 -1.9158896
6 -0.16971098]
Round3162-------squared error: 3.9139 parameter: [18.39799768  0.72232558 -1.9159316
7 -0.16970433]
Round3163-------squared error: 3.9139 parameter: [18.39799769  0.72227958 -1.9159736
5 -0.1696977 ]
Round3164-------squared error: 3.9139 parameter: [18.3979977   0.72223362 -1.9160155
8 -0.16969106]
Round3165-------squared error: 3.9139 parameter: [18.39799772  0.7221877  -1.9160574
7 -0.16968443]
Round3166-------squared error: 3.9139 parameter: [18.39799773  0.72214183 -1.9160993
2 -0.16967781]
Round3167-------squared error: 3.9139 parameter: [18.39799774  0.722096   -1.9161411
3 -0.1696712 ]
Round3168-------squared error: 3.9139 parameter: [18.39799775  0.72205022 -1.9161829
-0.16966458]
```

```
Round3169-------squared error: 3.9139 parameter: [18.39799776  0.72200448 -1.9162246
3 -0.16965798]
Round3170-------squared error: 3.9139 parameter: [18.39799777  0.72195878 -1.9162663
1 -0.16965138]
Round3171-------squared error: 3.9139 parameter: [18.39799778  0.72191313 -1.9163079
6 -0.16964478]
Round3172-------squared error: 3.9139 parameter: [18.39799779  0.72186752 -1.9163495
7 -0.16963819]
Round3173-------squared error: 3.9139 parameter: [18.3979978   0.72182196 -1.9163911
3 -0.16963161]
Round3174-------squared error: 3.9139 parameter: [18.39799782  0.72177643 -1.9164326
6 -0.16962503]
Round3175-------squared error: 3.9139 parameter: [18.39799783  0.72173096 -1.9164741
5 -0.16961846]
Round3176-------squared error: 3.9139 parameter: [18.39799784  0.72168552 -1.9165155
9 -0.16961189]
Round3177-------squared error: 3.9139 parameter: [18.39799785  0.72164013 -1.916557
-0.16960533]
Round3178-------squared error: 3.9139 parameter: [18.39799786  0.72159478 -1.9165983
6 -0.16959878]
Round3179-------squared error: 3.9139 parameter: [18.39799787  0.72154948 -1.9166396
8 -0.16959223]
Round3180-------squared error: 3.9139 parameter: [18.39799788  0.72150422 -1.9166809
7 -0.16958568]
Round3181-------squared error: 3.9139 parameter: [18.39799789  0.721459   -1.9167222
1 -0.16957914]
Round3182-------squared error: 3.9138 parameter: [18.3979979   0.72141383 -1.9167634
2 -0.16957261]
Round3183-------squared error: 3.9138 parameter: [18.39799791  0.7213687  -1.9168045
8 -0.16956608]
Round3184-------squared error: 3.9138 parameter: [18.39799792  0.72132361 -1.9168457
-0.16955956]
Round3185-------squared error: 3.9138 parameter: [18.39799793  0.72127857 -1.9168867
9 -0.16955304]
Round3186-------squared error: 3.9138 parameter: [18.39799794  0.72123357 -1.9169278
3 -0.16954653]
Round3187-------squared error: 3.9138 parameter: [18.39799795  0.72118861 -1.9169688
3 -0.16954003]
Round3188-------squared error: 3.9138 parameter: [18.39799796  0.72114369 -1.9170098
-0.16953353]
Round3189-------squared error: 3.9138 parameter: [18.39799797  0.72109882 -1.9170507
2 -0.16952703]
Round3190-------squared error: 3.9138 parameter: [18.39799798  0.72105399 -1.9170916
1 -0.16952054]
Round3191-------squared error: 3.9138 parameter: [18.39799799  0.72100921 -1.9171324
5 -0.16951406]
Round3192-------squared error: 3.9138 parameter: [18.397998    0.72096446 -1.9171732
6 -0.16950758]
Round3193-------squared error: 3.9138 parameter: [18.39799801  0.72091976 -1.9172140
2 -0.16950111]
Round3194-------squared error: 3.9138 parameter: [18.39799802  0.72087511 -1.9172547
5 -0.16949464]
Round3195-------squared error: 3.9138 parameter: [18.39799803  0.72083049 -1.9172954
3 -0.16948818]
Round3196-------squared error: 3.9138 parameter: [18.39799804  0.72078592 -1.9173360
8 -0.16948172]
Round3197-------squared error: 3.9138 parameter: [18.39799805  0.72074139 -1.9173766
8 -0.16947527]
Round3198-------squared error: 3.9138 parameter: [18.39799806  0.7206969  -1.9174172
5 -0.16946883]
Round3199-------squared error: 3.9138 parameter: [18.39799807  0.72065246 -1.9174577
8 -0.16946239]
Round3200-------squared error: 3.9138 parameter: [18.39799808  0.72060806 -1.9174982
7 -0.16945595]
```

```
Round3201-------squared error: 3.9138 parameter: [18.39799809  0.7205637  -1.9175387
2 -0.16944952]
Round3202-------squared error: 3.9138 parameter: [18.3979981   0.72051938 -1.9175791
3 -0.1694431 ]
Round3203-------squared error: 3.9138 parameter: [18.39799811  0.72047511 -1.9176195
-0.16943668]
Round3204-------squared error: 3.9138 parameter: [18.39799812  0.72043088 -1.9176598
3 -0.16943027]
Round3205-------squared error: 3.9138 parameter: [18.39799813  0.72038669 -1.9177001
2 -0.16942386]
Round3206-------squared error: 3.9138 parameter: [18.39799814  0.72034254 -1.9177403
7 -0.16941746]
Round3207-------squared error: 3.9138 parameter: [18.39799815  0.72029844 -1.9177805
9 -0.16941107]
Round3208-------squared error: 3.9138 parameter: [18.39799816  0.72025438 -1.9178207
6 -0.16940468]
Round3209-------squared error: 3.9138 parameter: [18.39799817  0.72021036 -1.9178609
-0.16939829]
Round3210-------squared error: 3.9138 parameter: [18.39799818  0.72016638 -1.917901
-0.16939191]
Round3211-------squared error: 3.9138 parameter: [18.39799819  0.72012244 -1.9179410
5 -0.16938554]
Round3212-------squared error: 3.9138 parameter: [18.39799819  0.72007855 -1.9179810
7 -0.16937917]
Round3213-------squared error: 3.9138 parameter: [18.3979982   0.7200347  -1.9180210
5 -0.1693728 ]
Round3214-------squared error: 3.9138 parameter: [18.39799821  0.71999089 -1.9180609
9 -0.16936645]
Round3215-------squared error: 3.9138 parameter: [18.39799822  0.71994712 -1.9181009
-0.16936009]
Round3216-------squared error: 3.9138 parameter: [18.39799823  0.71990339 -1.9181407
6 -0.16935375]
Round3217-------squared error: 3.9138 parameter: [18.39799824  0.71985971 -1.9181805
8 -0.16934741]
Round3218-------squared error: 3.9138 parameter: [18.39799825  0.71981607 -1.9182203
7 -0.16934107]
Round3219-------squared error: 3.9138 parameter: [18.39799826  0.71977247 -1.9182601
2 -0.16933474]
Round3220-------squared error: 3.9138 parameter: [18.39799827  0.71972891 -1.9182998
3 -0.16932841]
Round3221-------squared error: 3.9138 parameter: [18.39799827  0.71968539 -1.9183395
-0.16932209]
Round3222-------squared error: 3.9138 parameter: [18.39799828  0.71964192 -1.9183791
3 -0.16931578]
Round3223-------squared error: 3.9138 parameter: [18.39799829  0.71959848 -1.9184187
2 -0.16930947]
Round3224-------squared error: 3.9138 parameter: [18.3979983   0.71955509 -1.9184582
8 -0.16930317]
Round3225-------squared error: 3.9138 parameter: [18.39799831  0.71951174 -1.9184977
9 -0.16929687]
Round3226-------squared error: 3.9138 parameter: [18.39799832  0.71946843 -1.9185372
7 -0.16929057]
Round3227-------squared error: 3.9138 parameter: [18.39799833  0.71942517 -1.9185767
1 -0.16928429]
Round3228-------squared error: 3.9138 parameter: [18.39799833  0.71938194 -1.9186161
1 -0.169278  ]
Round3229-------squared error: 3.9138 parameter: [18.39799834  0.71933876 -1.9186554
7 -0.16927173]
Round3230-------squared error: 3.9138 parameter: [18.39799835  0.71929562 -1.9186948
-0.16926546]
Round3231-------squared error: 3.9138 parameter: [18.39799836  0.71925251 -1.9187340
8 -0.16925919]
Round3232-------squared error: 3.9138 parameter: [18.39799837  0.71920945 -1.9187733
3 -0.16925293]
```

```
Round3233-------squared error: 3.9138 parameter: [18.39799838  0.71916643 -1.9188125
4 -0.16924668]
Round3234-------squared error: 3.9138 parameter: [18.39799838  0.71912346 -1.9188517
1 -0.16924043]
Round3235-------squared error: 3.9138 parameter: [18.39799839  0.71908052 -1.9188908
5 -0.16923418]
Round3236-------squared error: 3.9138 parameter: [18.3979984   0.71903763 -1.9189299
4 -0.16922794]
Round3237-------squared error: 3.9138 parameter: [18.39799841  0.71899477 -1.918969
-0.16922171]
Round3238-------squared error: 3.9138 parameter: [18.39799842  0.71895196 -1.9190080
2 -0.16921548]
Round3239-------squared error: 3.9138 parameter: [18.39799842  0.71890919 -1.919047
-0.16920926]
Round3240-------squared error: 3.9138 parameter: [18.39799843  0.71886645 -1.9190859
5 -0.16920304]
Round3241-------squared error: 3.9138 parameter: [18.39799844  0.71882376 -1.9191248
5 -0.16919683]
Round3242-------squared error: 3.9138 parameter: [18.39799845  0.71878112 -1.9191637
2 -0.16919062]
Round3243-------squared error: 3.9138 parameter: [18.39799845  0.71873851 -1.9192025
5 -0.16918442]
Round3244-------squared error: 3.9138 parameter: [18.39799846  0.71869594 -1.9192413
5 -0.16917822]
Round3245-------squared error: 3.9138 parameter: [18.39799847  0.71865341 -1.9192801
-0.16917203]
Round3246-------squared error: 3.9138 parameter: [18.39799848  0.71861093 -1.9193188
2 -0.16916584]
Round3247-------squared error: 3.9138 parameter: [18.39799849  0.71856848 -1.9193575
-0.16915966]
Round3248-------squared error: 3.9138 parameter: [18.39799849  0.71852608 -1.9193961
4 -0.16915349]
Round3249-------squared error: 3.9138 parameter: [18.3979985   0.71848371 -1.9194347
5 -0.16914732]
Round3250-------squared error: 3.9138 parameter: [18.39799851  0.71844139 -1.9194733
2 -0.16914116]
Round3251-------squared error: 3.9138 parameter: [18.39799852  0.71839911 -1.9195118
5 -0.169135  ]
Round3252-------squared error: 3.9138 parameter: [18.39799852  0.71835686 -1.9195503
4 -0.16912884]
Round3253-------squared error: 3.9137 parameter: [18.39799853  0.71831466 -1.9195887
9 -0.16912269]
Round3254-------squared error: 3.9137 parameter: [18.39799854  0.7182725  -1.9196272
1 -0.16911655]
Round3255-------squared error: 3.9137 parameter: [18.39799854  0.71823038 -1.9196655
9 -0.16911041]
Round3256-------squared error: 3.9137 parameter: [18.39799855  0.7181883  -1.9197039
4 -0.16910428]
Round3257-------squared error: 3.9137 parameter: [18.39799856  0.71814626 -1.9197422
4 -0.16909815]
Round3258-------squared error: 3.9137 parameter: [18.39799857  0.71810426 -1.9197805
1 -0.16909203]
Round3259-------squared error: 3.9137 parameter: [18.39799857  0.7180623  -1.9198187
4 -0.16908591]
Round3260-------squared error: 3.9137 parameter: [18.39799858  0.71802038 -1.9198569
4 -0.1690798 ]
Round3261-------squared error: 3.9137 parameter: [18.39799859  0.7179785  -1.9198950
9 -0.1690737 ]
Round3262-------squared error: 3.9137 parameter: [18.39799859  0.71793666 -1.9199332
2 -0.1690676 ]
Round3263-------squared error: 3.9137 parameter: [18.3979986   0.71789486 -1.9199713
-0.1690615 ]
Round3264-------squared error: 3.9137 parameter: [18.39799861  0.7178531  -1.9200093
5 -0.16905541]
```

```
Round3265-------squared error: 3.9137 parameter: [18.39799862  0.71781138 -1.9200473
5 -0.16904933]
Round3266-------squared error: 3.9137 parameter: [18.39799862  0.71776971 -1.9200853
3 -0.16904325]
Round3267-------squared error: 3.9137 parameter: [18.39799863  0.71772807 -1.9201232
6 -0.16903717]
Round3268-------squared error: 3.9137 parameter: [18.39799864  0.71768647 -1.9201611
6 -0.1690311 ]
Round3269-------squared error: 3.9137 parameter: [18.39799864  0.71764491 -1.9201990
2 -0.16902504]
Round3270-------squared error: 3.9137 parameter: [18.39799865  0.71760339 -1.9202368
5 -0.16901898]
Round3271-------squared error: 3.9137 parameter: [18.39799866  0.71756191 -1.9202746
4 -0.16901293]
Round3272-------squared error: 3.9137 parameter: [18.39799866  0.71752047 -1.9203123
9 -0.16900688]
Round3273-------squared error: 3.9137 parameter: [18.39799867  0.71747907 -1.9203501
1 -0.16900084]
Round3274-------squared error: 3.9137 parameter: [18.39799868  0.71743771 -1.9203877
8 -0.1689948 ]
Round3275-------squared error: 3.9137 parameter: [18.39799868  0.71739639 -1.9204254
3 -0.16898877]
Round3276-------squared error: 3.9137 parameter: [18.39799869  0.71735511 -1.9204630
3 -0.16898274]
Round3277-------squared error: 3.9137 parameter: [18.3979987   0.71731386 -1.9205006
-0.16897672]
Round3278-------squared error: 3.9137 parameter: [18.3979987   0.71727266 -1.9205381
3 -0.1689707 ]
Round3279-------squared error: 3.9137 parameter: [18.39799871  0.7172315  -1.9205756
3 -0.16896469]
Round3280-------squared error: 3.9137 parameter: [18.39799872  0.71719038 -1.9206130
9 -0.16895868]
Round3281-------squared error: 3.9137 parameter: [18.39799872  0.71714929 -1.9206505
1 -0.16895268]
Round3282-------squared error: 3.9137 parameter: [18.39799873  0.71710825 -1.9206879
-0.16894668]
Round3283-------squared error: 3.9137 parameter: [18.39799874  0.71706724 -1.9207252
5 -0.16894069]
Round3284-------squared error: 3.9137 parameter: [18.39799874  0.71702628 -1.9207625
7 -0.16893471]
Round3285-------squared error: 3.9137 parameter: [18.39799875  0.71698535 -1.9207998
4 -0.16892873]
Round3286-------squared error: 3.9137 parameter: [18.39799875  0.71694446 -1.9208370
9 -0.16892275]
Round3287-------squared error: 3.9137 parameter: [18.39799876  0.71690362 -1.9208742
9 -0.16891678]
Round3288-------squared error: 3.9137 parameter: [18.39799877  0.71686281 -1.9209114
6 -0.16891082]
Round3289-------squared error: 3.9137 parameter: [18.39799877  0.71682204 -1.9209486
-0.16890486]
Round3290-------squared error: 3.9137 parameter: [18.39799878  0.71678131 -1.9209856
9 -0.1688989 ]
Round3291-------squared error: 3.9137 parameter: [18.39799878  0.71674062 -1.9210227
5 -0.16889295]
Round3292-------squared error: 3.9137 parameter: [18.39799879  0.71669996 -1.9210597
8 -0.16888701]
Round3293-------squared error: 3.9137 parameter: [18.3979988   0.71665935 -1.9210967
7 -0.16888107]
Round3294-------squared error: 3.9137 parameter: [18.3979988   0.71661878 -1.9211337
2 -0.16887514]
Round3295-------squared error: 3.9137 parameter: [18.39799881  0.71657824 -1.9211706
4 -0.16886921]
Round3296-------squared error: 3.9137 parameter: [18.39799882  0.71653774 -1.9212075
2 -0.16886329]
```

```
Round3297-------squared error: 3.9137 parameter: [18.39799882  0.71649728 -1.9212443
7 -0.16885737]
Round3298-------squared error: 3.9137 parameter: [18.39799883  0.71645687 -1.9212811
8 -0.16885146]
Round3299-------squared error: 3.9137 parameter: [18.39799883  0.71641649 -1.9213179
6 -0.16884555]
Round3300-------squared error: 3.9137 parameter: [18.39799884  0.71637614 -1.9213547
-0.16883964]
Round3301-------squared error: 3.9137 parameter: [18.39799884  0.71633584 -1.9213914
-0.16883375]
Round3302-------squared error: 3.9137 parameter: [18.39799885  0.71629558 -1.9214280
7 -0.16882785]
Round3303-------squared error: 3.9137 parameter: [18.39799886  0.71625535 -1.9214647
-0.16882197]
Round3304-------squared error: 3.9137 parameter: [18.39799886  0.71621516 -1.9215013
-0.16881609]
Round3305-------squared error: 3.9137 parameter: [18.39799887  0.71617501 -1.9215378
6 -0.16881021]
Round3306-------squared error: 3.9137 parameter: [18.39799887  0.7161349  -1.9215743
8 -0.16880434]
Round3307-------squared error: 3.9137 parameter: [18.39799888  0.71609483 -1.9216108
7 -0.16879847]
Round3308-------squared error: 3.9137 parameter: [18.39799888  0.7160548  -1.9216473
3 -0.16879261]
Round3309-------squared error: 3.9137 parameter: [18.39799889  0.7160148  -1.9216837
5 -0.16878675]
Round3310-------squared error: 3.9137 parameter: [18.3979989   0.71597485 -1.9217201
3 -0.1687809 ]
Round3311-------squared error: 3.9137 parameter: [18.3979989   0.71593493 -1.9217564
8 -0.16877505]
Round3312-------squared error: 3.9137 parameter: [18.39799891  0.71589505 -1.9217927
9 -0.16876921]
Round3313-------squared error: 3.9137 parameter: [18.39799891  0.71585521 -1.9218290
7 -0.16876338]
Round3314-------squared error: 3.9137 parameter: [18.39799892  0.7158154  -1.9218653
2 -0.16875755]
Round3315-------squared error: 3.9137 parameter: [18.39799892  0.71577564 -1.9219015
2 -0.16875172]
Round3316-------squared error: 3.9137 parameter: [18.39799893  0.71573591 -1.9219377
-0.1687459 ]
Round3317-------squared error: 3.9137 parameter: [18.39799893  0.71569622 -1.9219738
4 -0.16874008]
Round3318-------squared error: 3.9137 parameter: [18.39799894  0.71565657 -1.9220099
4 -0.16873427]
Round3319-------squared error: 3.9137 parameter: [18.39799894  0.71561696 -1.9220460
1 -0.16872847]
Round3320-------squared error: 3.9137 parameter: [18.39799895  0.71557738 -1.9220820
4 -0.16872267]
Round3321-------squared error: 3.9137 parameter: [18.39799895  0.71553785 -1.9221180
4 -0.16871687]
Round3322-------squared error: 3.9137 parameter: [18.39799896  0.71549835 -1.922154
-0.16871108]
Round3323-------squared error: 3.9137 parameter: [18.39799897  0.71545888 -1.9221899
3 -0.1687053 ]
Round3324-------squared error: 3.9137 parameter: [18.39799897  0.71541946 -1.9222258
2 -0.16869952]
Round3325-------squared error: 3.9137 parameter: [18.39799898  0.71538008 -1.9222616
8 -0.16869374]
Round3326-------squared error: 3.9137 parameter: [18.39799898  0.71534073 -1.9222975
-0.16868797]
Round3327-------squared error: 3.9137 parameter: [18.39799899  0.71530142 -1.9223332
9 -0.16868221]
Round3328-------squared error: 3.9137 parameter: [18.39799899  0.71526215 -1.9223690
5 -0.16867645]
```

```
Round3329-------squared error: 3.9137 parameter: [18.397999    0.71522291 -1.9224047
6 -0.16867069]
Round3330-------squared error: 3.9137 parameter: [18.397999    0.71518371 -1.9224404
5 -0.16866494]
Round3331-------squared error: 3.9137 parameter: [18.39799901  0.71514455 -1.9224761
-0.1686592 ]
Round3332-------squared error: 3.9137 parameter: [18.39799901  0.71510543 -1.9225117
2 -0.16865346]
Round3333-------squared error: 3.9137 parameter: [18.39799902  0.71506635 -1.9225473
-0.16864772]
Round3334-------squared error: 3.9137 parameter: [18.39799902  0.7150273  -1.9225828
4 -0.16864199]
Round3335-------squared error: 3.9136 parameter: [18.39799903  0.71498829 -1.9226183
5 -0.16863627]
Round3336-------squared error: 3.9136 parameter: [18.39799903  0.71494932 -1.9226538
3 -0.16863055]
Round3337-------squared error: 3.9136 parameter: [18.39799904  0.71491038 -1.9226892
8 -0.16862484]
Round3338-------squared error: 3.9136 parameter: [18.39799904  0.71487149 -1.9227246
8 -0.16861913]
Round3339-------squared error: 3.9136 parameter: [18.39799904  0.71483263 -1.9227600
6 -0.16861342]
Round3340-------squared error: 3.9136 parameter: [18.39799905  0.7147938  -1.9227954
-0.16860772]
Round3341-------squared error: 3.9136 parameter: [18.39799905  0.71475502 -1.9228307
-0.16860203]
Round3342-------squared error: 3.9136 parameter: [18.39799906  0.71471627 -1.9228659
8 -0.16859634]
Round3343-------squared error: 3.9136 parameter: [18.39799906  0.71467756 -1.9229012
1 -0.16859065]
Round3344-------squared error: 3.9136 parameter: [18.39799907  0.71463888 -1.9229364
2 -0.16858498]
Round3345-------squared error: 3.9136 parameter: [18.39799907  0.71460025 -1.9229715
9 -0.1685793 ]
Round3346-------squared error: 3.9136 parameter: [18.39799908  0.71456165 -1.9230067
2 -0.16857363]
Round3347-------squared error: 3.9136 parameter: [18.39799908  0.71452308 -1.9230418
2 -0.16856797]
Round3348-------squared error: 3.9136 parameter: [18.39799909  0.71448456 -1.9230768
9 -0.16856231]
Round3349-------squared error: 3.9136 parameter: [18.39799909  0.71444607 -1.9231119
2 -0.16855665]
Round3350-------squared error: 3.9136 parameter: [18.3979991   0.71440762 -1.9231469
2 -0.168551  ]
Round3351-------squared error: 3.9136 parameter: [18.3979991   0.7143692  -1.9231818
8 -0.16854536]
Round3352-------squared error: 3.9136 parameter: [18.39799911  0.71433082 -1.9232168
2 -0.16853972]
Round3353-------squared error: 3.9136 parameter: [18.39799911  0.71429248 -1.9232517
1 -0.16853409]
Round3354-------squared error: 3.9136 parameter: [18.39799911  0.71425418 -1.9232865
8 -0.16852846]
Round3355-------squared error: 3.9136 parameter: [18.39799912  0.71421591 -1.9233214
1 -0.16852283]
Round3356-------squared error: 3.9136 parameter: [18.39799912  0.71417768 -1.9233562
-0.16851721]
Round3357-------squared error: 3.9136 parameter: [18.39799913  0.71413948 -1.9233909
6 -0.1685116 ]
Round3358-------squared error: 3.9136 parameter: [18.39799913  0.71410132 -1.9234256
9 -0.16850599]
Round3359-------squared error: 3.9136 parameter: [18.39799914  0.7140632  -1.9234603
9 -0.16850038]
Round3360-------squared error: 3.9136 parameter: [18.39799914  0.71402512 -1.9234950
5 -0.16849478]
```

```
Round3361-------squared error: 3.9136 parameter: [18.39799914  0.71398707 -1.9235296
7 -0.16848919]
Round3362-------squared error: 3.9136 parameter: [18.39799915  0.71394906 -1.9235642
7 -0.1684836 ]
Round3363-------squared error: 3.9136 parameter: [18.39799915  0.71391108 -1.9235988
3 -0.16847801]
Round3364-------squared error: 3.9136 parameter: [18.39799916  0.71387314 -1.9236333
6 -0.16847243]
Round3365-------squared error: 3.9136 parameter: [18.39799916  0.71383524 -1.9236678
5 -0.16846686]
Round3366-------squared error: 3.9136 parameter: [18.39799917  0.71379737 -1.9237023
1 -0.16846129]
Round3367-------squared error: 3.9136 parameter: [18.39799917  0.71375954 -1.9237367
3 -0.16845572]
Round3368-------squared error: 3.9136 parameter: [18.39799917  0.71372175 -1.9237711
3 -0.16845016]
Round3369-------squared error: 3.9136 parameter: [18.39799918  0.71368399 -1.9238054
9 -0.16844461]
Round3370-------squared error: 3.9136 parameter: [18.39799918  0.71364627 -1.9238398
1 -0.16843906]
Round3371-------squared error: 3.9136 parameter: [18.39799919  0.71360859 -1.9238741
1 -0.16843351]
Round3372-------squared error: 3.9136 parameter: [18.39799919  0.71357094 -1.9239083
7 -0.16842797]
Round3373-------squared error: 3.9136 parameter: [18.39799919  0.71353333 -1.9239425
9 -0.16842243]
Round3374-------squared error: 3.9136 parameter: [18.3979992   0.71349575 -1.9239767
9 -0.1684169 ]
Round3375-------squared error: 3.9136 parameter: [18.3979992   0.71345821 -1.9240109
5 -0.16841138]
Round3376-------squared error: 3.9136 parameter: [18.39799921  0.71342071 -1.9240450
7 -0.16840586]
Round3377-------squared error: 3.9136 parameter: [18.39799921  0.71338324 -1.9240791
7 -0.16840034]
Round3378-------squared error: 3.9136 parameter: [18.39799921  0.7133458  -1.9241132
3 -0.16839483]
Round3379-------squared error: 3.9136 parameter: [18.39799922  0.71330841 -1.9241472
6 -0.16838932]
Round3380-------squared error: 3.9136 parameter: [18.39799922  0.71327105 -1.9241812
5 -0.16838382]
Round3381-------squared error: 3.9136 parameter: [18.39799923  0.71323372 -1.9242152
1 -0.16837832]
Round3382-------squared error: 3.9136 parameter: [18.39799923  0.71319643 -1.9242491
4 -0.16837283]
Round3383-------squared error: 3.9136 parameter: [18.39799923  0.71315918 -1.9242830
4 -0.16836734]
Round3384-------squared error: 3.9136 parameter: [18.39799924  0.71312196 -1.9243169
-0.16836186]
Round3385-------squared error: 3.9136 parameter: [18.39799924  0.71308478 -1.9243507
3 -0.16835638]
Round3386-------squared error: 3.9136 parameter: [18.39799925  0.71304763 -1.9243845
3 -0.16835091]
Round3387-------squared error: 3.9136 parameter: [18.39799925  0.71301052 -1.9244183
-0.16834544]
Round3388-------squared error: 3.9136 parameter: [18.39799925  0.71297345 -1.9244520
3 -0.16833998]
Round3389-------squared error: 3.9136 parameter: [18.39799926  0.71293641 -1.9244857
3 -0.16833452]
Round3390-------squared error: 3.9136 parameter: [18.39799926  0.71289941 -1.9245193
9 -0.16832907]
Round3391-------squared error: 3.9136 parameter: [18.39799926  0.71286244 -1.9245530
3 -0.16832362]
Round3392-------squared error: 3.9136 parameter: [18.39799927  0.7128255  -1.9245866
3 -0.16831818]
```

```
Round3393-------squared error: 3.9136 parameter: [18.39799927  0.71278861 -1.9246202
-0.16831274]
Round3394-------squared error: 3.9136 parameter: [18.39799927  0.71275174 -1.9246537
4 -0.16830731]
Round3395-------squared error: 3.9136 parameter: [18.39799928  0.71271492 -1.9246872
4 -0.16830188]
Round3396-------squared error: 3.9136 parameter: [18.39799928  0.71267813 -1.9247207
1 -0.16829645]
Round3397-------squared error: 3.9136 parameter: [18.39799929  0.71264137 -1.9247541
5 -0.16829103]
Round3398-------squared error: 3.9136 parameter: [18.39799929  0.71260465 -1.9247875
6 -0.16828562]
Round3399-------squared error: 3.9136 parameter: [18.39799929  0.71256796 -1.9248209
3 -0.16828021]
Round3400-------squared error: 3.9136 parameter: [18.3979993   0.71253131 -1.9248542
7 -0.16827481]
Round3401-------squared error: 3.9136 parameter: [18.3979993   0.7124947  -1.9248875
8 -0.16826941]
Round3402-------squared error: 3.9136 parameter: [18.3979993   0.71245812 -1.9249208
6 -0.16826401]
Round3403-------squared error: 3.9136 parameter: [18.39799931  0.71242157 -1.9249541
1 -0.16825862]
Round3404-------squared error: 3.9136 parameter: [18.39799931  0.71238506 -1.9249873
2 -0.16825323]
Round3405-------squared error: 3.9136 parameter: [18.39799931  0.71234859 -1.9250205
-0.16824785]
Round3406-------squared error: 3.9136 parameter: [18.39799932  0.71231215 -1.9250536
5 -0.16824248]
Round3407-------squared error: 3.9136 parameter: [18.39799932  0.71227574 -1.9250867
7 -0.16823711]
Round3408-------squared error: 3.9136 parameter: [18.39799932  0.71223937 -1.9251198
5 -0.16823174]
Round3409-------squared error: 3.9136 parameter: [18.39799933  0.71220304 -1.9251529
-0.16822638]
Round3410-------squared error: 3.9136 parameter: [18.39799933  0.71216674 -1.9251859
2 -0.16822102]
Round3411-------squared error: 3.9136 parameter: [18.39799933  0.71213047 -1.9252189
1 -0.16821567]
Round3412-------squared error: 3.9136 parameter: [18.39799934  0.71209424 -1.9252518
7 -0.16821032]
Round3413-------squared error: 3.9136 parameter: [18.39799934  0.71205805 -1.9252847
9 -0.16820498]
Round3414-------squared error: 3.9136 parameter: [18.39799934  0.71202189 -1.9253176
8 -0.16819964]
Round3415-------squared error: 3.9136 parameter: [18.39799935  0.71198576 -1.9253505
5 -0.16819431]
Round3416-------squared error: 3.9136 parameter: [18.39799935  0.71194967 -1.9253833
7 -0.16818898]
Round3417-------squared error: 3.9136 parameter: [18.39799935  0.71191361 -1.9254161
7 -0.16818366]
Round3418-------squared error: 3.9136 parameter: [18.39799936  0.71187759 -1.9254489
4 -0.16817834]
Round3419-------squared error: 3.9136 parameter: [18.39799936  0.7118416  -1.9254816
7 -0.16817302]
Round3420-------squared error: 3.9136 parameter: [18.39799936  0.71180565 -1.9255143
7 -0.16816771]
Round3421-------squared error: 3.9136 parameter: [18.39799937  0.71176973 -1.9255470
4 -0.16816241]
Round3422-------squared error: 3.9136 parameter: [18.39799937  0.71173385 -1.9255796
8 -0.16815711]
Round3423-------squared error: 3.9136 parameter: [18.39799937  0.711698   -1.9256122
9 -0.16815181]
Round3424-------squared error: 3.9136 parameter: [18.39799938  0.71166218 -1.9256448
6 -0.16814652]
```

```
Round3425-------squared error: 3.9136 parameter: [18.39799938  0.7116264  -1.9256774
1 -0.16814124]
Round3426-------squared error: 3.9136 parameter: [18.39799938  0.71159065 -1.9257099
2 -0.16813596]
Round3427-------squared error: 3.9136 parameter: [18.39799939  0.71155494 -1.9257424
-0.16813068]
Round3428-------squared error: 3.9136 parameter: [18.39799939  0.71151926 -1.9257748
5 -0.16812541]
Round3429-------squared error: 3.9136 parameter: [18.39799939  0.71148362 -1.9258072
7 -0.16812014]
Round3430-------squared error: 3.9136 parameter: [18.39799939  0.71144801 -1.9258396
5 -0.16811488]
Round3431-------squared error: 3.9136 parameter: [18.3979994   0.71141243 -1.9258720
1 -0.16810962]
Round3432-------squared error: 3.9135 parameter: [18.3979994   0.71137689 -1.9259043
3 -0.16810437]
Round3433-------squared error: 3.9135 parameter: [18.3979994   0.71134138 -1.9259366
2 -0.16809912]
Round3434-------squared error: 3.9135 parameter: [18.39799941  0.71130591 -1.9259688
8 -0.16809388]
Round3435-------squared error: 3.9135 parameter: [18.39799941  0.71127047 -1.9260011
1 -0.16808864]
Round3436-------squared error: 3.9135 parameter: [18.39799941  0.71123507 -1.9260333
1 -0.16808341]
Round3437-------squared error: 3.9135 parameter: [18.39799942  0.7111997  -1.9260654
8 -0.16807818]
Round3438-------squared error: 3.9135 parameter: [18.39799942  0.71116436 -1.9260976
2 -0.16807295]
Round3439-------squared error: 3.9135 parameter: [18.39799942  0.71112906 -1.9261297
2 -0.16806773]
Round3440-------squared error: 3.9135 parameter: [18.39799942  0.71109379 -1.9261617
9 -0.16806252]
Round3441-------squared error: 3.9135 parameter: [18.39799943  0.71105855 -1.9261938
4 -0.16805731]
Round3442-------squared error: 3.9135 parameter: [18.39799943  0.71102335 -1.9262258
5 -0.1680521 ]
Round3443-------squared error: 3.9135 parameter: [18.39799943  0.71098818 -1.9262578
3 -0.1680469 ]
Round3444-------squared error: 3.9135 parameter: [18.39799944  0.71095305 -1.9262897
8 -0.1680417 ]
Round3445-------squared error: 3.9135 parameter: [18.39799944  0.71091795 -1.9263217
-0.16803651]
Round3446-------squared error: 3.9135 parameter: [18.39799944  0.71088288 -1.9263535
9 -0.16803132]
Round3447-------squared error: 3.9135 parameter: [18.39799944  0.71084785 -1.9263854
4 -0.16802614]
Round3448-------squared error: 3.9135 parameter: [18.39799945  0.71081285 -1.9264172
7 -0.16802096]
Round3449-------squared error: 3.9135 parameter: [18.39799945  0.71077788 -1.9264490
6 -0.16801579]
Round3450-------squared error: 3.9135 parameter: [18.39799945  0.71074295 -1.9264808
3 -0.16801062]
Round3451-------squared error: 3.9135 parameter: [18.39799946  0.71070805 -1.9265125
6 -0.16800546]
Round3452-------squared error: 3.9135 parameter: [18.39799946  0.71067318 -1.9265442
7 -0.1680003 ]
Round3453-------squared error: 3.9135 parameter: [18.39799946  0.71063835 -1.9265759
4 -0.16799514]
Round3454-------squared error: 3.9135 parameter: [18.39799946  0.71060355 -1.9266075
8 -0.16798999]
Round3455-------squared error: 3.9135 parameter: [18.39799947  0.71056879 -1.9266391
9 -0.16798484]
Round3456-------squared error: 3.9135 parameter: [18.39799947  0.71053406 -1.9266707
7 -0.1679797 ]
```

```
Round3457-------squared error: 3.9135 parameter: [18.39799947  0.71049936 -1.9267023
2 -0.16797457]
Round3458-------squared error: 3.9135 parameter: [18.39799947  0.71046469 -1.9267338
4 -0.16796944]
Round3459-------squared error: 3.9135 parameter: [18.39799948  0.71043006 -1.9267653
3 -0.16796431]
Round3460-------squared error: 3.9135 parameter: [18.39799948  0.71039546 -1.9267967
9 -0.16795919]
Round3461-------squared error: 3.9135 parameter: [18.39799948  0.7103609  -1.9268282
2 -0.16795407]
Round3462-------squared error: 3.9135 parameter: [18.39799948  0.71032637 -1.9268596
1 -0.16794895]
Round3463-------squared error: 3.9135 parameter: [18.39799949  0.71029187 -1.9268909
8 -0.16794385]
Round3464-------squared error: 3.9135 parameter: [18.39799949  0.7102574  -1.9269223
2 -0.16793874]
Round3465-------squared error: 3.9135 parameter: [18.39799949  0.71022297 -1.9269536
2 -0.16793364]
Round3466-------squared error: 3.9135 parameter: [18.39799949  0.71018857 -1.9269849
-0.16792855]
Round3467-------squared error: 3.9135 parameter: [18.3979995   0.7101542  -1.9270161
5 -0.16792346]
Round3468-------squared error: 3.9135 parameter: [18.3979995   0.71011987 -1.9270473
6 -0.16791837]
Round3469-------squared error: 3.9135 parameter: [18.3979995   0.71008557 -1.9270785
5 -0.16791329]
Round3470-------squared error: 3.9135 parameter: [18.3979995   0.7100513  -1.9271097
-0.16790821]
Round3471-------squared error: 3.9135 parameter: [18.39799951  0.71001707 -1.9271408
3 -0.16790314]
Round3472-------squared error: 3.9135 parameter: [18.39799951  0.70998286 -1.9271719
2 -0.16789807]
Round3473-------squared error: 3.9135 parameter: [18.39799951  0.70994869 -1.9272029
8 -0.16789301]
Round3474-------squared error: 3.9135 parameter: [18.39799951  0.70991456 -1.9272340
2 -0.16788795]
Round3475-------squared error: 3.9135 parameter: [18.39799952  0.70988045 -1.9272650
2 -0.1678829 ]
Round3476-------squared error: 3.9135 parameter: [18.39799952  0.70984638 -1.927296
-0.16787785]
Round3477-------squared error: 3.9135 parameter: [18.39799952  0.70981235 -1.9273269
4 -0.1678728 ]
Round3478-------squared error: 3.9135 parameter: [18.39799952  0.70977834 -1.9273578
6 -0.16786776]
Round3479-------squared error: 3.9135 parameter: [18.39799953  0.70974437 -1.9273887
4 -0.16786273]
Round3480-------squared error: 3.9135 parameter: [18.39799953  0.70971043 -1.9274196
-0.16785769]
Round3481-------squared error: 3.9135 parameter: [18.39799953  0.70967652 -1.9274504
2 -0.16785267]
Round3482-------squared error: 3.9135 parameter: [18.39799953  0.70964264 -1.9274812
2 -0.16784764]
Round3483-------squared error: 3.9135 parameter: [18.39799954  0.7096088  -1.9275119
8 -0.16784263]
Round3484-------squared error: 3.9135 parameter: [18.39799954  0.70957499 -1.9275427
2 -0.16783761]
Round3485-------squared error: 3.9135 parameter: [18.39799954  0.70954121 -1.9275734
2 -0.16783261]
Round3486-------squared error: 3.9135 parameter: [18.39799954  0.70950747 -1.9276041
-0.1678276 ]
Round3487-------squared error: 3.9135 parameter: [18.39799955  0.70947376 -1.9276347
4 -0.1678226 ]
Round3488-------squared error: 3.9135 parameter: [18.39799955  0.70944008 -1.9276653
6 -0.16781761]
```

```
Round3489-------squared error: 3.9135 parameter: [18.39799955  0.70940643 -1.9276959
5 -0.16781262]
Round3490-------squared error: 3.9135 parameter: [18.39799955  0.70937281 -1.9277265
-0.16780763]
Round3491-------squared error: 3.9135 parameter: [18.39799955  0.70933923 -1.9277570
3 -0.16780265]
Round3492-------squared error: 3.9135 parameter: [18.39799956  0.70930568 -1.9277875
3 -0.16779767]
Round3493-------squared error: 3.9135 parameter: [18.39799956  0.70927216 -1.927818
-0.1677927 ]
Round3494-------squared error: 3.9135 parameter: [18.39799956  0.70923867 -1.9278484
4 -0.16778773]
Round3495-------squared error: 3.9135 parameter: [18.39799956  0.70920522 -1.9278788
5 -0.16778277]
Round3496-------squared error: 3.9135 parameter: [18.39799957  0.70917179 -1.9279092
3 -0.16777781]
Round3497-------squared error: 3.9135 parameter: [18.39799957  0.7091384  -1.9279395
8 -0.16777285]
Round3498-------squared error: 3.9135 parameter: [18.39799957  0.70910505 -1.9279699
-0.1677679 ]
Round3499-------squared error: 3.9135 parameter: [18.39799957  0.70907172 -1.9280001
9 -0.16776296]
Round3500-------squared error: 3.9135 parameter: [18.39799957  0.70903842 -1.9280304
5 -0.16775801]
Round3501-------squared error: 3.9135 parameter: [18.39799958  0.70900516 -1.9280606
9 -0.16775308]
Round3502-------squared error: 3.9135 parameter: [18.39799958  0.70897193 -1.9280908
9 -0.16774814]
Round3503-------squared error: 3.9135 parameter: [18.39799958  0.70893873 -1.9281210
7 -0.16774322]
Round3504-------squared error: 3.9135 parameter: [18.39799958  0.70890557 -1.9281512
1 -0.16773829]
Round3505-------squared error: 3.9135 parameter: [18.39799958  0.70887243 -1.9281813
3 -0.16773337]
Round3506-------squared error: 3.9135 parameter: [18.39799959  0.70883933 -1.9282114
2 -0.16772846]
Round3507-------squared error: 3.9135 parameter: [18.39799959  0.70880626 -1.9282414
7 -0.16772355]
Round3508-------squared error: 3.9135 parameter: [18.39799959  0.70877322 -1.9282715
-0.16771864]
Round3509-------squared error: 3.9135 parameter: [18.39799959  0.70874021 -1.9283015
-0.16771374]
Round3510-------squared error: 3.9135 parameter: [18.39799959  0.70870723 -1.9283314
7 -0.16770884]
Round3511-------squared error: 3.9135 parameter: [18.3979996   0.70867429 -1.9283614
2 -0.16770395]
Round3512-------squared error: 3.9135 parameter: [18.3979996   0.70864138 -1.9283913
3 -0.16769906]
Round3513-------squared error: 3.9135 parameter: [18.3979996   0.7086085  -1.9284212
1 -0.16769418]
Round3514-------squared error: 3.9135 parameter: [18.3979996   0.70857565 -1.9284510
7 -0.1676893 ]
Round3515-------squared error: 3.9135 parameter: [18.3979996   0.70854283 -1.9284808
9 -0.16768443]
Round3516-------squared error: 3.9135 parameter: [18.39799961  0.70851004 -1.9285106
9 -0.16767956]
Round3517-------squared error: 3.9135 parameter: [18.39799961  0.70847729 -1.9285404
6 -0.16767469]
Round3518-------squared error: 3.9135 parameter: [18.39799961  0.70844456 -1.9285702
-0.16766983]
Round3519-------squared error: 3.9135 parameter: [18.39799961  0.70841187 -1.9285999
1 -0.16766497]
Round3520-------squared error: 3.9135 parameter: [18.39799961  0.70837921 -1.9286295
9 -0.16766012]
```

```
Round3521-------squared error: 3.9135 parameter: [18.39799962  0.70834658 -1.9286592
5 -0.16765527]
Round3522-------squared error: 3.9135 parameter: [18.39799962  0.70831398 -1.9286888
7 -0.16765043]
Round3523-------squared error: 3.9135 parameter: [18.39799962  0.70828142 -1.9287184
7 -0.16764559]
Round3524-------squared error: 3.9135 parameter: [18.39799962  0.70824888 -1.9287480
3 -0.16764075]
Round3525-------squared error: 3.9135 parameter: [18.39799962  0.70821638 -1.9287775
7 -0.16763592]
Round3526-------squared error: 3.9135 parameter: [18.39799963  0.7081839  -1.9288070
8 -0.16763109]
Round3527-------squared error: 3.9135 parameter: [18.39799963  0.70815146 -1.9288365
7 -0.16762627]
Round3528-------squared error: 3.9135 parameter: [18.39799963  0.70811905 -1.9288660
2 -0.16762145]
Round3529-------squared error: 3.9135 parameter: [18.39799963  0.70808667 -1.9288954
4 -0.16761664]
Round3530-------squared error: 3.9135 parameter: [18.39799963  0.70805432 -1.9289248
4 -0.16761183]
Round3531-------squared error: 3.9135 parameter: [18.39799964  0.70802201 -1.9289542
1 -0.16760703]
Round3532-------squared error: 3.9135 parameter: [18.39799964  0.70798972 -1.9289835
5 -0.16760222]
Round3533-------squared error: 3.9135 parameter: [18.39799964  0.70795746 -1.9290128
6 -0.16759743]
Round3534-------squared error: 3.9135 parameter: [18.39799964  0.70792524 -1.9290421
4 -0.16759264]
Round3535-------squared error: 3.9135 parameter: [18.39799964  0.70789305 -1.9290713
9 -0.16758785]
Round3536-------squared error: 3.9135 parameter: [18.39799964  0.70786088 -1.9291006
2 -0.16758307]
Round3537-------squared error: 3.9135 parameter: [18.39799965  0.70782875 -1.9291298
2 -0.16757829]
Round3538-------squared error: 3.9135 parameter: [18.39799965  0.70779665 -1.9291589
9 -0.16757351]
Round3539-------squared error: 3.9135 parameter: [18.39799965  0.70776458 -1.9291881
3 -0.16756874]
Round3540-------squared error: 3.9135 parameter: [18.39799965  0.70773254 -1.9292172
4 -0.16756398]
Round3541-------squared error: 3.9135 parameter: [18.39799965  0.70770053 -1.9292463
3 -0.16755922]
Round3542-------squared error: 3.9135 parameter: [18.39799965  0.70766856 -1.9292753
8 -0.16755446]
Round3543-------squared error: 3.9135 parameter: [18.39799966  0.70763661 -1.9293044
1 -0.16754971]
Round3544-------squared error: 3.9135 parameter: [18.39799966  0.70760469 -1.9293334
1 -0.16754496]
Round3545-------squared error: 3.9135 parameter: [18.39799966  0.70757281 -1.9293623
8 -0.16754021]
Round3546-------squared error: 3.9135 parameter: [18.39799966  0.70754095 -1.9293913
3 -0.16753548]
Round3547-------squared error: 3.9135 parameter: [18.39799966  0.70750913 -1.9294202
4 -0.16753074]
Round3548-------squared error: 3.9135 parameter: [18.39799966  0.70747733 -1.9294491
3 -0.16752601]
Round3549-------squared error: 3.9135 parameter: [18.39799967  0.70744557 -1.9294779
9 -0.16752128]
Round3550-------squared error: 3.9135 parameter: [18.39799967  0.70741384 -1.9295068
2 -0.16751656]
Round3551-------squared error: 3.9135 parameter: [18.39799967  0.70738213 -1.9295356
3 -0.16751184]
Round3552-------squared error: 3.9134 parameter: [18.39799967  0.70735046 -1.9295644
1 -0.16750713]
```

```
Round3553-------squared error: 3.9134 parameter: [18.39799967  0.70731882 -1.9295931
5 -0.16750242]
Round3554-------squared error: 3.9134 parameter: [18.39799967  0.70728721 -1.9296218
8 -0.16749771]
Round3555-------squared error: 3.9134 parameter: [18.39799968  0.70725563 -1.9296505
7 -0.16749301]
Round3556-------squared error: 3.9134 parameter: [18.39799968  0.70722408 -1.9296792
3 -0.16748831]
Round3557-------squared error: 3.9134 parameter: [18.39799968  0.70719256 -1.9297078
7 -0.16748362]
Round3558-------squared error: 3.9134 parameter: [18.39799968  0.70716107 -1.9297364
8 -0.16747893]
Round3559-------squared error: 3.9134 parameter: [18.39799968  0.70712961 -1.9297650
6 -0.16747425]
Round3560-------squared error: 3.9134 parameter: [18.39799968  0.70709818 -1.9297936
2 -0.16746957]
Round3561-------squared error: 3.9134 parameter: [18.39799969  0.70706678 -1.9298221
5 -0.16746489]
Round3562-------squared error: 3.9134 parameter: [18.39799969  0.70703541 -1.9298506
5 -0.16746022]
Round3563-------squared error: 3.9134 parameter: [18.39799969  0.70700407 -1.9298791
2 -0.16745555]
Round3564-------squared error: 3.9134 parameter: [18.39799969  0.70697276 -1.9299075
6 -0.16745089]
Round3565-------squared error: 3.9134 parameter: [18.39799969  0.70694149 -1.9299359
8 -0.16744623]
Round3566-------squared error: 3.9134 parameter: [18.39799969  0.70691024 -1.9299643
7 -0.16744158]
Round3567-------squared error: 3.9134 parameter: [18.3979997   0.70687902 -1.9299927
3 -0.16743693]
Round3568-------squared error: 3.9134 parameter: [18.3979997   0.70684783 -1.9300210
6 -0.16743228]
Round3569-------squared error: 3.9134 parameter: [18.3979997   0.70681667 -1.9300493
7 -0.16742764]
Round3570-------squared error: 3.9134 parameter: [18.3979997   0.70678554 -1.9300776
5 -0.167423  ]
Round3571-------squared error: 3.9134 parameter: [18.3979997   0.70675444 -1.9301059
-0.16741837]
Round3572-------squared error: 3.9134 parameter: [18.3979997   0.70672337 -1.9301341
3 -0.16741374]
Round3573-------squared error: 3.9134 parameter: [18.3979997   0.70669234 -1.9301623
3 -0.16740912]
Round3574-------squared error: 3.9134 parameter: [18.39799971  0.70666133 -1.9301905
-0.1674045 ]
Round3575-------squared error: 3.9134 parameter: [18.39799971  0.70663035 -1.9302186
4 -0.16739988]
Round3576-------squared error: 3.9134 parameter: [18.39799971  0.7065994  -1.9302467
6 -0.16739527]
Round3577-------squared error: 3.9134 parameter: [18.39799971  0.70656848 -1.9302748
4 -0.16739066]
Round3578-------squared error: 3.9134 parameter: [18.39799971  0.70653759 -1.9303029
1 -0.16738606]
Round3579-------squared error: 3.9134 parameter: [18.39799971  0.70650673 -1.9303309
4 -0.16738146]
Round3580-------squared error: 3.9134 parameter: [18.39799971  0.7064759  -1.9303589
5 -0.16737686]
Round3581-------squared error: 3.9134 parameter: [18.39799972  0.70644509 -1.9303869
3 -0.16737227]
Round3582-------squared error: 3.9134 parameter: [18.39799972  0.70641432 -1.9304148
8 -0.16736768]
Round3583-------squared error: 3.9134 parameter: [18.39799972  0.70638358 -1.9304428
1 -0.1673631 ]
Round3584-------squared error: 3.9134 parameter: [18.39799972  0.70635287 -1.9304707
1 -0.16735852]
```

```
Round3585-------squared error: 3.9134 parameter: [18.39799972  0.70632218 -1.9304985
8 -0.16735395]
Round3586-------squared error: 3.9134 parameter: [18.39799972  0.70629153 -1.9305264
2 -0.16734938]
Round3587-------squared error: 3.9134 parameter: [18.39799972  0.70626091 -1.9305542
4 -0.16734481]
Round3588-------squared error: 3.9134 parameter: [18.39799973  0.70623031 -1.9305820
3 -0.16734025]
Round3589-------squared error: 3.9134 parameter: [18.39799973  0.70619975 -1.9306098
-0.16733569]
Round3590-------squared error: 3.9134 parameter: [18.39799973  0.70616921 -1.9306375
3 -0.16733114]
Round3591-------squared error: 3.9134 parameter: [18.39799973  0.7061387  -1.9306652
4 -0.16732659]
Round3592-------squared error: 3.9134 parameter: [18.39799973  0.70610822 -1.9306929
3 -0.16732204]
Round3593-------squared error: 3.9134 parameter: [18.39799973  0.70607778 -1.9307205
9 -0.1673175 ]
Round3594-------squared error: 3.9134 parameter: [18.39799973  0.70604736 -1.9307482
2 -0.16731297]
Round3595-------squared error: 3.9134 parameter: [18.39799974  0.70601697 -1.9307758
2 -0.16730843]
Round3596-------squared error: 3.9134 parameter: [18.39799974  0.70598661 -1.9308034
-0.1673039 ]
Round3597-------squared error: 3.9134 parameter: [18.39799974  0.70595628 -1.9308309
5 -0.16729938]
Round3598-------squared error: 3.9134 parameter: [18.39799974  0.70592597 -1.9308584
7 -0.16729486]
Round3599-------squared error: 3.9134 parameter: [18.39799974  0.7058957  -1.9308859
7 -0.16729034]
Round3600-------squared error: 3.9134 parameter: [18.39799974  0.70586546 -1.9309134
4 -0.16728583]
Round3601-------squared error: 3.9134 parameter: [18.39799974  0.70583524 -1.9309408
8 -0.16728132]
Round3602-------squared error: 3.9134 parameter: [18.39799974  0.70580506 -1.9309683
-0.16727682]
Round3603-------squared error: 3.9134 parameter: [18.39799975  0.7057749  -1.9309956
9 -0.16727232]
Round3604-------squared error: 3.9134 parameter: [18.39799975  0.70574477 -1.9310230
5 -0.16726782]
Round3605-------squared error: 3.9134 parameter: [18.39799975  0.70571467 -1.9310503
9 -0.16726333]
Round3606-------squared error: 3.9134 parameter: [18.39799975  0.7056846  -1.9310777
-0.16725884]
Round3607-------squared error: 3.9134 parameter: [18.39799975  0.70565456 -1.9311049
9 -0.16725436]
Round3608-------squared error: 3.9134 parameter: [18.39799975  0.70562455 -1.9311322
5 -0.16724988]
Round3609-------squared error: 3.9134 parameter: [18.39799975  0.70559456 -1.9311594
8 -0.16724541]
Round3610-------squared error: 3.9134 parameter: [18.39799975  0.70556461 -1.9311866
9 -0.16724093]
Round3611-------squared error: 3.9134 parameter: [18.39799976  0.70553468 -1.9312138
6 -0.16723647]
Round3612-------squared error: 3.9134 parameter: [18.39799976  0.70550479 -1.9312410
2 -0.167232  ]
Round3613-------squared error: 3.9134 parameter: [18.39799976  0.70547492 -1.9312681
5 -0.16722755]
Round3614-------squared error: 3.9134 parameter: [18.39799976  0.70544508 -1.9312952
5 -0.16722309]
Round3615-------squared error: 3.9134 parameter: [18.39799976  0.70541527 -1.9313223
2 -0.16721864]
Round3616-------squared error: 3.9134 parameter: [18.39799976  0.70538548 -1.9313493
7 -0.16721419]
```

```
Round3617-------squared error: 3.9134 parameter: [18.39799976  0.70535573 -1.9313763
9 -0.16720975]
Round3618-------squared error: 3.9134 parameter: [18.39799976  0.705326   -1.9314033
9 -0.16720531]
Round3619-------squared error: 3.9134 parameter: [18.39799977  0.70529631 -1.9314303
6 -0.16720088]
Round3620-------squared error: 3.9134 parameter: [18.39799977  0.70526664 -1.9314573
-0.16719645]
Round3621-------squared error: 3.9134 parameter: [18.39799977  0.705237   -1.9314842
2 -0.16719202]
Round3622-------squared error: 3.9134 parameter: [18.39799977  0.70520739 -1.9315111
1 -0.1671876 ]
Round3623-------squared error: 3.9134 parameter: [18.39799977  0.70517781 -1.9315379
8 -0.16718318]
Round3624-------squared error: 3.9134 parameter: [18.39799977  0.70514825 -1.9315648
2 -0.16717877]
Round3625-------squared error: 3.9134 parameter: [18.39799977  0.70511873 -1.9315916
3 -0.16717436]
Round3626-------squared error: 3.9134 parameter: [18.39799977  0.70508923 -1.9316184
2 -0.16716995]
Round3627-------squared error: 3.9134 parameter: [18.39799977  0.70505976 -1.9316451
8 -0.16716555]
Round3628-------squared error: 3.9134 parameter: [18.39799978  0.70503032 -1.9316719
2 -0.16716115]
Round3629-------squared error: 3.9134 parameter: [18.39799978  0.7050009  -1.9316986
3 -0.16715676]
Round3630-------squared error: 3.9134 parameter: [18.39799978  0.70497152 -1.9317253
1 -0.16715237]
Round3631-------squared error: 3.9134 parameter: [18.39799978  0.70494216 -1.9317519
7 -0.16714798]
Round3632-------squared error: 3.9134 parameter: [18.39799978  0.70491284 -1.9317786
-0.1671436 ]
Round3633-------squared error: 3.9134 parameter: [18.39799978  0.70488354 -1.9318052
1 -0.16713922]
Round3634-------squared error: 3.9134 parameter: [18.39799978  0.70485426 -1.9318317
9 -0.16713485]
Round3635-------squared error: 3.9134 parameter: [18.39799978  0.70482502 -1.9318583
5 -0.16713048]
Round3636-------squared error: 3.9134 parameter: [18.39799978  0.70479581 -1.9318848
8 -0.16712611]
Round3637-------squared error: 3.9134 parameter: [18.39799979  0.70476662 -1.9319113
8 -0.16712175]
Round3638-------squared error: 3.9134 parameter: [18.39799979  0.70473746 -1.9319378
6 -0.16711739]
Round3639-------squared error: 3.9134 parameter: [18.39799979  0.70470833 -1.9319643
2 -0.16711304]
Round3640-------squared error: 3.9134 parameter: [18.39799979  0.70467922 -1.9319907
4 -0.16710869]
Round3641-------squared error: 3.9134 parameter: [18.39799979  0.70465015 -1.9320171
5 -0.16710434]
Round3642-------squared error: 3.9134 parameter: [18.39799979  0.7046211  -1.9320435
2 -0.1671    ]
Round3643-------squared error: 3.9134 parameter: [18.39799979  0.70459208 -1.9320698
7 -0.16709566]
Round3644-------squared error: 3.9134 parameter: [18.39799979  0.70456309 -1.9320962
-0.16709133]
Round3645-------squared error: 3.9134 parameter: [18.39799979  0.70453413 -1.9321225
-0.167087  ]
Round3646-------squared error: 3.9134 parameter: [18.39799979  0.70450519 -1.9321487
7 -0.16708267]
Round3647-------squared error: 3.9134 parameter: [18.3979998   0.70447628 -1.9321750
2 -0.16707835]
Round3648-------squared error: 3.9134 parameter: [18.3979998   0.7044474  -1.9322012
5 -0.16707403]
```

```
Round3649-------squared error: 3.9134 parameter: [18.3979998   0.70441855 -1.9322274
5 -0.16706972]
Round3650-------squared error: 3.9134 parameter: [18.3979998   0.70438973 -1.9322536
2 -0.16706541]
Round3651-------squared error: 3.9134 parameter: [18.3979998   0.70436093 -1.9322797
7 -0.1670611 ]
Round3652-------squared error: 3.9134 parameter: [18.3979998   0.70433216 -1.9323058
9 -0.1670568 ]
Round3653-------squared error: 3.9134 parameter: [18.3979998   0.70430342 -1.9323319
9 -0.1670525 ]
Round3654-------squared error: 3.9134 parameter: [18.3979998   0.7042747  -1.9323580
6 -0.16704821]
Round3655-------squared error: 3.9134 parameter: [18.3979998   0.70424602 -1.9323841
1 -0.16704392]
Round3656-------squared error: 3.9134 parameter: [18.39799981  0.70421736 -1.9324101
3 -0.16703963]
Round3657-------squared error: 3.9134 parameter: [18.39799981  0.70418873 -1.9324361
2 -0.16703535]
Round3658-------squared error: 3.9134 parameter: [18.39799981  0.70416012 -1.9324621
-0.16703107]
Round3659-------squared error: 3.9134 parameter: [18.39799981  0.70413154 -1.9324880
4 -0.1670268 ]
Round3660-------squared error: 3.9134 parameter: [18.39799981  0.704103   -1.9325139
6 -0.16702253]
Round3661-------squared error: 3.9134 parameter: [18.39799981  0.70407447 -1.9325398
6 -0.16701826]
Round3662-------squared error: 3.9134 parameter: [18.39799981  0.70404598 -1.9325657
3 -0.167014  ]
Round3663-------squared error: 3.9134 parameter: [18.39799981  0.70401751 -1.9325915
8 -0.16700974]
Round3664-------squared error: 3.9134 parameter: [18.39799981  0.70398907 -1.9326174
-0.16700548]
Round3665-------squared error: 3.9134 parameter: [18.39799981  0.70396066 -1.9326432
-0.16700123]
Round3666-------squared error: 3.9134 parameter: [18.39799981  0.70393228 -1.9326689
7 -0.16699698]
Round3667-------squared error: 3.9134 parameter: [18.39799982  0.70390392 -1.9326947
1 -0.16699274]
Round3668-------squared error: 3.9134 parameter: [18.39799982  0.70387559 -1.9327204
4 -0.1669885 ]
Round3669-------squared error: 3.9134 parameter: [18.39799982  0.70384729 -1.9327461
3 -0.16698427]
Round3670-------squared error: 3.9134 parameter: [18.39799982  0.70381901 -1.9327718
-0.16698003]
Round3671-------squared error: 3.9134 parameter: [18.39799982  0.70379076 -1.9327974
5 -0.16697581]
Round3672-------squared error: 3.9134 parameter: [18.39799982  0.70376254 -1.9328230
7 -0.16697158]
Round3673-------squared error: 3.9134 parameter: [18.39799982  0.70373434 -1.9328486
7 -0.16696736]
Round3674-------squared error: 3.9134 parameter: [18.39799982  0.70370618 -1.9328742
4 -0.16696315]
Round3675-------squared error: 3.9134 parameter: [18.39799982  0.70367804 -1.9328997
9 -0.16695893]
Round3676-------squared error: 3.9134 parameter: [18.39799982  0.70364992 -1.9329253
1 -0.16695473]
Round3677-------squared error: 3.9134 parameter: [18.39799982  0.70362184 -1.9329508
1 -0.16695052]
Round3678-------squared error: 3.9134 parameter: [18.39799983  0.70359378 -1.9329762
9 -0.16694632]
Round3679-------squared error: 3.9134 parameter: [18.39799983  0.70356575 -1.9330017
4 -0.16694213]
Round3680-------squared error: 3.9134 parameter: [18.39799983  0.70353774 -1.9330271
6 -0.16693793]
```

```
Round3681-------squared error: 3.9134 parameter: [18.39799983  0.70350976 -1.9330525
6 -0.16693374]
Round3682-------squared error: 3.9134 parameter: [18.39799983  0.70348181 -1.9330779
4 -0.16692956]
Round3683-------squared error: 3.9134 parameter: [18.39799983  0.70345389 -1.9331032
9 -0.16692538]
Round3684-------squared error: 3.9134 parameter: [18.39799983  0.70342599 -1.9331286
2 -0.1669212 ]
Round3685-------squared error: 3.9134 parameter: [18.39799983  0.70339812 -1.9331539
2 -0.16691703]
Round3686-------squared error: 3.9134 parameter: [18.39799983  0.70337027 -1.9331792
-0.16691286]
Round3687-------squared error: 3.9134 parameter: [18.39799983  0.70334246 -1.9332044
5 -0.16690869]
Round3688-------squared error: 3.9134 parameter: [18.39799983  0.70331466 -1.9332296
8 -0.16690453]
Round3689-------squared error: 3.9134 parameter: [18.39799983  0.7032869  -1.9332548
8 -0.16690037]
Round3690-------squared error: 3.9134 parameter: [18.39799984  0.70325916 -1.9332800
6 -0.16689622]
Round3691-------squared error: 3.9134 parameter: [18.39799984  0.70323145 -1.9333052
2 -0.16689207]
Round3692-------squared error: 3.9134 parameter: [18.39799984  0.70320377 -1.9333303
5 -0.16688792]
Round3693-------squared error: 3.9134 parameter: [18.39799984  0.70317611 -1.9333554
6 -0.16688378]
Round3694-------squared error: 3.9134 parameter: [18.39799984  0.70314848 -1.9333805
4 -0.16687964]
Round3695-------squared error: 3.9134 parameter: [18.39799984  0.70312088 -1.9334056
-0.1668755 ]
Round3696-------squared error: 3.9134 parameter: [18.39799984  0.7030933  -1.9334306
3 -0.16687137]
Round3697-------squared error: 3.9134 parameter: [18.39799984  0.70306575 -1.9334556
4 -0.16686724]
Round3698-------squared error: 3.9134 parameter: [18.39799984  0.70303822 -1.9334806
3 -0.16686312]
Round3699-------squared error: 3.9134 parameter: [18.39799984  0.70301072 -1.9335055
9 -0.166859  ]
Round3700-------squared error: 3.9134 parameter: [18.39799984  0.70298325 -1.9335305
3 -0.16685488]
Round3701-------squared error: 3.9134 parameter: [18.39799984  0.70295581 -1.9335554
4 -0.16685077]
Round3702-------squared error: 3.9134 parameter: [18.39799985  0.70292839 -1.9335803
3 -0.16684666]
Round3703-------squared error: 3.9134 parameter: [18.39799985  0.70290099 -1.9336052
-0.16684256]
Round3704-------squared error: 3.9134 parameter: [18.39799985  0.70287363 -1.9336300
4 -0.16683846]
Round3705-------squared error: 3.9134 parameter: [18.39799985  0.70284629 -1.9336548
6 -0.16683436]
Round3706-------squared error: 3.9134 parameter: [18.39799985  0.70281897 -1.9336796
5 -0.16683027]
Round3707-------squared error: 3.9134 parameter: [18.39799985  0.70279169 -1.9337044
2 -0.16682618]
Round3708-------squared error: 3.9133 parameter: [18.39799985  0.70276442 -1.9337291
7 -0.16682209]
Round3709-------squared error: 3.9133 parameter: [18.39799985  0.70273719 -1.9337538
9 -0.16681801]
Round3710-------squared error: 3.9133 parameter: [18.39799985  0.70270998 -1.9337785
9 -0.16681393]
Round3711-------squared error: 3.9133 parameter: [18.39799985  0.7026828  -1.9338032
6 -0.16680986]
Round3712-------squared error: 3.9133 parameter: [18.39799985  0.70265564 -1.9338279
1 -0.16680579]
```

```
Round3713-------squared error: 3.9133 parameter: [18.39799985  0.70262851 -1.9338525
4 -0.16680172]
Round3714-------squared error: 3.9133 parameter: [18.39799985  0.7026014  -1.9338771
4 -0.16679766]
Round3715-------squared error: 3.9133 parameter: [18.39799985  0.70257433 -1.9339017
2 -0.1667936 ]
Round3716-------squared error: 3.9133 parameter: [18.39799986  0.70254727 -1.9339262
7 -0.16678954]
Round3717-------squared error: 3.9133 parameter: [18.39799986  0.70252025 -1.9339508
1 -0.16678549]
Round3718-------squared error: 3.9133 parameter: [18.39799986  0.70249325 -1.9339753
1 -0.16678144]
Round3719-------squared error: 3.9133 parameter: [18.39799986  0.70246627 -1.9339998
-0.1667774 ]
Round3720-------squared error: 3.9133 parameter: [18.39799986  0.70243932 -1.9340242
6 -0.16677336]
Round3721-------squared error: 3.9133 parameter: [18.39799986  0.7024124  -1.9340486
9 -0.16676932]
Round3722-------squared error: 3.9133 parameter: [18.39799986  0.7023855  -1.9340731
1 -0.16676528]
Round3723-------squared error: 3.9133 parameter: [18.39799986  0.70235863 -1.9340975
-0.16676126]
Round3724-------squared error: 3.9133 parameter: [18.39799986  0.70233179 -1.9341218
6 -0.16675723]
Round3725-------squared error: 3.9133 parameter: [18.39799986  0.70230497 -1.9341462
-0.16675321]
Round3726-------squared error: 3.9133 parameter: [18.39799986  0.70227817 -1.9341705
2 -0.16674919]
Round3727-------squared error: 3.9133 parameter: [18.39799986  0.70225141 -1.9341948
2 -0.16674517]
Round3728-------squared error: 3.9133 parameter: [18.39799986  0.70222466 -1.9342190
9 -0.16674116]
Round3729-------squared error: 3.9133 parameter: [18.39799986  0.70219795 -1.9342433
4 -0.16673716]
Round3730-------squared error: 3.9133 parameter: [18.39799987  0.70217126 -1.9342675
6 -0.16673315]
Round3731-------squared error: 3.9133 parameter: [18.39799987  0.70214459 -1.9342917
7 -0.16672915]
Round3732-------squared error: 3.9133 parameter: [18.39799987  0.70211795 -1.9343159
4 -0.16672516]
Round3733-------squared error: 3.9133 parameter: [18.39799987  0.70209134 -1.9343401
-0.16672116]
Round3734-------squared error: 3.9133 parameter: [18.39799987  0.70206475 -1.9343642
3 -0.16671718]
Round3735-------squared error: 3.9133 parameter: [18.39799987  0.70203819 -1.9343883
4 -0.16671319]
Round3736-------squared error: 3.9133 parameter: [18.39799987  0.70201165 -1.9344124
2 -0.16670921]
Round3737-------squared error: 3.9133 parameter: [18.39799987  0.70198514 -1.9344364
9 -0.16670523]
Round3738-------squared error: 3.9133 parameter: [18.39799987  0.70195865 -1.9344605
2 -0.16670126]
Round3739-------squared error: 3.9133 parameter: [18.39799987  0.70193219 -1.9344845
4 -0.16669729]
Round3740-------squared error: 3.9133 parameter: [18.39799987  0.70190576 -1.9345085
3 -0.16669332]
Round3741-------squared error: 3.9133 parameter: [18.39799987  0.70187935 -1.9345325
-0.16668936]
Round3742-------squared error: 3.9133 parameter: [18.39799987  0.70185296 -1.9345564
5 -0.1666854 ]
Round3743-------squared error: 3.9133 parameter: [18.39799987  0.7018266  -1.9345803
7 -0.16668144]
Round3744-------squared error: 3.9133 parameter: [18.39799987  0.70180027 -1.9346042
7 -0.16667749]
```

```
Round3745-------squared error: 3.9133 parameter: [18.39799988  0.70177396 -1.9346281
4 -0.16667354]
Round3746-------squared error: 3.9133 parameter: [18.39799988  0.70174768 -1.934652
-0.1666696 ]
Round3747-------squared error: 3.9133 parameter: [18.39799988  0.70172142 -1.9346758
3 -0.16666566]
Round3748-------squared error: 3.9133 parameter: [18.39799988  0.70169519 -1.9346996
3 -0.16666172]
Round3749-------squared error: 3.9133 parameter: [18.39799988  0.70166898 -1.9347234
2 -0.16665779]
Round3750-------squared error: 3.9133 parameter: [18.39799988  0.7016428  -1.9347471
8 -0.16665386]
Round3751-------squared error: 3.9133 parameter: [18.39799988  0.70161664 -1.9347709
2 -0.16664993]
Round3752-------squared error: 3.9133 parameter: [18.39799988  0.70159051 -1.9347946
3 -0.16664601]
Round3753-------squared error: 3.9133 parameter: [18.39799988  0.7015644  -1.9348183
2 -0.16664209]
Round3754-------squared error: 3.9133 parameter: [18.39799988  0.70153832 -1.9348419
9 -0.16663817]
Round3755-------squared error: 3.9133 parameter: [18.39799988  0.70151226 -1.9348656
4 -0.16663426]
Round3756-------squared error: 3.9133 parameter: [18.39799988  0.70148623 -1.9348892
6 -0.16663035]
Round3757-------squared error: 3.9133 parameter: [18.39799988  0.70146022 -1.9349128
7 -0.16662645]
Round3758-------squared error: 3.9133 parameter: [18.39799988  0.70143424 -1.9349364
4 -0.16662255]
Round3759-------squared error: 3.9133 parameter: [18.39799988  0.70140829 -1.93496
-0.16661865]
Round3760-------squared error: 3.9133 parameter: [18.39799988  0.70138235 -1.9349835
3 -0.16661475]
Round3761-------squared error: 3.9133 parameter: [18.39799988  0.70135645 -1.9350070
4 -0.16661086]
Round3762-------squared error: 3.9133 parameter: [18.39799989  0.70133056 -1.9350305
3 -0.16660698]
Round3763-------squared error: 3.9133 parameter: [18.39799989  0.70130471 -1.9350539
9 -0.16660309]
Round3764-------squared error: 3.9133 parameter: [18.39799989  0.70127888 -1.9350774
4 -0.16659921]
Round3765-------squared error: 3.9133 parameter: [18.39799989  0.70125307 -1.9351008
5 -0.16659534]
Round3766-------squared error: 3.9133 parameter: [18.39799989  0.70122729 -1.9351242
5 -0.16659147]
Round3767-------squared error: 3.9133 parameter: [18.39799989  0.70120153 -1.9351476
3 -0.1665876 ]
Round3768-------squared error: 3.9133 parameter: [18.39799989  0.7011758  -1.9351709
8 -0.16658373]
Round3769-------squared error: 3.9133 parameter: [18.39799989  0.70115009 -1.9351943
1 -0.16657987]
Round3770-------squared error: 3.9133 parameter: [18.39799989  0.7011244  -1.9352176
1 -0.16657601]
Round3771-------squared error: 3.9133 parameter: [18.39799989  0.70109874 -1.9352409
-0.16657216]
Round3772-------squared error: 3.9133 parameter: [18.39799989  0.70107311 -1.9352641
6 -0.16656831]
Round3773-------squared error: 3.9133 parameter: [18.39799989  0.7010475  -1.9352874
-0.16656446]
Round3774-------squared error: 3.9133 parameter: [18.39799989  0.70102192 -1.9353106
1 -0.16656062]
Round3775-------squared error: 3.9133 parameter: [18.39799989  0.70099636 -1.9353338
1 -0.16655678]
Round3776-------squared error: 3.9133 parameter: [18.39799989  0.70097082 -1.9353569
8 -0.16655294]
```

```
Round3777-------squared error: 3.9133 parameter: [18.39799989  0.70094531 -1.9353801
3 -0.16654911]
Round3778-------squared error: 3.9133 parameter: [18.39799989  0.70091982 -1.9354032
5 -0.16654528]
Round3779-------squared error: 3.9133 parameter: [18.39799989  0.70089436 -1.9354263
6 -0.16654145]
Round3780-------squared error: 3.9133 parameter: [18.3979999   0.70086892 -1.9354494
4 -0.16653763]
Round3781-------squared error: 3.9133 parameter: [18.3979999   0.70084351 -1.9354725
-0.16653381]
Round3782-------squared error: 3.9133 parameter: [18.3979999   0.70081812 -1.9354955
4 -0.16653   ]
Round3783-------squared error: 3.9133 parameter: [18.3979999   0.70079276 -1.9355185
5 -0.16652619]
Round3784-------squared error: 3.9133 parameter: [18.3979999   0.70076742 -1.9355415
5 -0.16652238]
Round3785-------squared error: 3.9133 parameter: [18.3979999   0.7007421  -1.9355645
2 -0.16651857]
Round3786-------squared error: 3.9133 parameter: [18.3979999   0.70071681 -1.9355874
7 -0.16651477]
Round3787-------squared error: 3.9133 parameter: [18.3979999   0.70069154 -1.9356103
9 -0.16651098]
Round3788-------squared error: 3.9133 parameter: [18.3979999   0.7006663  -1.9356333
-0.16650718]
Round3789-------squared error: 3.9133 parameter: [18.3979999   0.70064108 -1.9356561
8 -0.16650339]
Round3790-------squared error: 3.9133 parameter: [18.3979999   0.70061589 -1.9356790
4 -0.16649961]
Round3791-------squared error: 3.9133 parameter: [18.3979999   0.70059072 -1.9357018
8 -0.16649582]
Round3792-------squared error: 3.9133 parameter: [18.3979999   0.70056557 -1.9357246
9 -0.16649204]
Round3793-------squared error: 3.9133 parameter: [18.3979999   0.70054045 -1.9357474
9 -0.16648827]
Round3794-------squared error: 3.9133 parameter: [18.3979999   0.70051535 -1.9357702
6 -0.16648449]
Round3795-------squared error: 3.9133 parameter: [18.3979999   0.70049028 -1.9357930
1 -0.16648072]
Round3796-------squared error: 3.9133 parameter: [18.3979999   0.70046523 -1.9358157
4 -0.16647696]
Round3797-------squared error: 3.9133 parameter: [18.3979999   0.7004402  -1.9358384
4 -0.1664732 ]
Round3798-------squared error: 3.9133 parameter: [18.3979999   0.7004152  -1.9358611
3 -0.16646944]
Round3799-------squared error: 3.9133 parameter: [18.3979999   0.70039023 -1.9358837
9 -0.16646568]
Round3800-------squared error: 3.9133 parameter: [18.39799991  0.70036527 -1.9359064
3 -0.16646193]
Round3801-------squared error: 3.9133 parameter: [18.39799991  0.70034034 -1.9359290
5 -0.16645818]
Round3802-------squared error: 3.9133 parameter: [18.39799991  0.70031544 -1.9359516
4 -0.16645444]
Round3803-------squared error: 3.9133 parameter: [18.39799991  0.70029056 -1.9359742
2 -0.1664507 ]
Round3804-------squared error: 3.9133 parameter: [18.39799991  0.7002657  -1.9359967
7 -0.16644696]
Round3805-------squared error: 3.9133 parameter: [18.39799991  0.70024087 -1.9360193
-0.16644322]
Round3806-------squared error: 3.9133 parameter: [18.39799991  0.70021606 -1.9360418
1 -0.16643949]
Round3807-------squared error: 3.9133 parameter: [18.39799991  0.70019127 -1.9360643
-0.16643577]
Round3808-------squared error: 3.9133 parameter: [18.39799991  0.70016651 -1.9360867
7 -0.16643204]
```

```
Round3809-------squared error: 3.9133 parameter: [18.39799991  0.70014177 -1.9361092
1 -0.16642832]
Round3810-------squared error: 3.9133 parameter: [18.39799991  0.70011706 -1.9361316
3 -0.1664246 ]
Round3811-------squared error: 3.9133 parameter: [18.39799991  0.70009237 -1.9361540
3 -0.16642089]
Round3812-------squared error: 3.9133 parameter: [18.39799991  0.7000677  -1.9361764
1 -0.16641718]
Round3813-------squared error: 3.9133 parameter: [18.39799991  0.70004306 -1.9361987
7 -0.16641347]
Round3814-------squared error: 3.9133 parameter: [18.39799991  0.70001844 -1.9362211
1 -0.16640977]
Round3815-------squared error: 3.9133 parameter: [18.39799991  0.69999384 -1.9362434
2 -0.16640607]
Round3816-------squared error: 3.9133 parameter: [18.39799991  0.69996927 -1.9362657
2 -0.16640237]
Round3817-------squared error: 3.9133 parameter: [18.39799991  0.69994472 -1.9362879
9 -0.16639868]
Round3818-------squared error: 3.9133 parameter: [18.39799991  0.6999202  -1.9363102
4 -0.16639499]
Round3819-------squared error: 3.9133 parameter: [18.39799991  0.6998957  -1.9363324
7 -0.16639131]
Round3820-------squared error: 3.9133 parameter: [18.39799991  0.69987122 -1.9363546
7 -0.16638762]
Round3821-------squared error: 3.9133 parameter: [18.39799991  0.69984677 -1.9363768
6 -0.16638394]
Round3822-------squared error: 3.9133 parameter: [18.39799992  0.69982234 -1.9363990
2 -0.16638027]
Round3823-------squared error: 3.9133 parameter: [18.39799992  0.69979793 -1.9364211
7 -0.1663766 ]
Round3824-------squared error: 3.9133 parameter: [18.39799992  0.69977355 -1.9364432
9 -0.16637293]
Round3825-------squared error: 3.9133 parameter: [18.39799992  0.69974919 -1.9364653
9 -0.16636926]
Round3826-------squared error: 3.9133 parameter: [18.39799992  0.69972485 -1.9364874
7 -0.1663656 ]
Round3827-------squared error: 3.9133 parameter: [18.39799992  0.69970054 -1.9365095
2 -0.16636194]
Round3828-------squared error: 3.9133 parameter: [18.39799992  0.69967625 -1.9365315
6 -0.16635829]
Round3829-------squared error: 3.9133 parameter: [18.39799992  0.69965198 -1.9365535
7 -0.16635463]
Round3830-------squared error: 3.9133 parameter: [18.39799992  0.69962774 -1.9365755
7 -0.16635099]
Round3831-------squared error: 3.9133 parameter: [18.39799992  0.69960352 -1.9365975
4 -0.16634734]
Round3832-------squared error: 3.9133 parameter: [18.39799992  0.69957932 -1.9366194
9 -0.1663437 ]
Round3833-------squared error: 3.9133 parameter: [18.39799992  0.69955515 -1.9366414
2 -0.16634006]
Round3834-------squared error: 3.9133 parameter: [18.39799992  0.699531   -1.9366633
3 -0.16633643]
Round3835-------squared error: 3.9133 parameter: [18.39799992  0.69950687 -1.9366852
2 -0.1663328 ]
Round3836-------squared error: 3.9133 parameter: [18.39799992  0.69948277 -1.9367070
8 -0.16632917]
Round3837-------squared error: 3.9133 parameter: [18.39799992  0.69945868 -1.9367289
3 -0.16632554]
Round3838-------squared error: 3.9133 parameter: [18.39799992  0.69943463 -1.9367507
5 -0.16632192]
Round3839-------squared error: 3.9133 parameter: [18.39799992  0.69941059 -1.9367725
6 -0.1663183 ]
Round3840-------squared error: 3.9133 parameter: [18.39799992  0.69938658 -1.9367943
4 -0.16631469]
```

```
Round3841-------squared error: 3.9133 parameter: [18.39799992  0.69936259 -1.9368161
-0.16631108]
Round3842-------squared error: 3.9133 parameter: [18.39799992  0.69933863 -1.9368378
4 -0.16630747]
Round3843-------squared error: 3.9133 parameter: [18.39799992  0.69931469 -1.9368595
6 -0.16630387]
Round3844-------squared error: 3.9133 parameter: [18.39799992  0.69929077 -1.9368812
6 -0.16630026]
Round3845-------squared error: 3.9133 parameter: [18.39799992  0.69926687 -1.9369029
3 -0.16629667]
Round3846-------squared error: 3.9133 parameter: [18.39799992  0.699243   -1.9369245
9 -0.16629307]
Round3847-------squared error: 3.9133 parameter: [18.39799993  0.69921915 -1.9369462
2 -0.16628948]
Round3848-------squared error: 3.9133 parameter: [18.39799993  0.69919532 -1.9369678
4 -0.16628589]
Round3849-------squared error: 3.9133 parameter: [18.39799993  0.69917152 -1.9369894
3 -0.16628231]
Round3850-------squared error: 3.9133 parameter: [18.39799993  0.69914774 -1.937011
-0.16627873]
Round3851-------squared error: 3.9133 parameter: [18.39799993  0.69912398 -1.9370325
6 -0.16627515]
Round3852-------squared error: 3.9133 parameter: [18.39799993  0.69910024 -1.9370540
9 -0.16627158]
Round3853-------squared error: 3.9133 parameter: [18.39799993  0.69907653 -1.9370756
-0.16626801]
Round3854-------squared error: 3.9133 parameter: [18.39799993  0.69905284 -1.9370970
9 -0.16626444]
Round3855-------squared error: 3.9133 parameter: [18.39799993  0.69902917 -1.9371185
6 -0.16626087]
Round3856-------squared error: 3.9133 parameter: [18.39799993  0.69900553 -1.93714
-0.16625731]
Round3857-------squared error: 3.9133 parameter: [18.39799993  0.69898191 -1.9371614
3 -0.16625376]
Round3858-------squared error: 3.9133 parameter: [18.39799993  0.69895831 -1.9371828
4 -0.1662502 ]
Round3859-------squared error: 3.9133 parameter: [18.39799993  0.69893473 -1.9372042
2 -0.16624665]
Round3860-------squared error: 3.9133 parameter: [18.39799993  0.69891118 -1.9372255
9 -0.1662431 ]
Round3861-------squared error: 3.9133 parameter: [18.39799993  0.69888765 -1.9372469
3 -0.16623956]
Round3862-------squared error: 3.9133 parameter: [18.39799993  0.69886414 -1.9372682
6 -0.16623602]
Round3863-------squared error: 3.9133 parameter: [18.39799993  0.69884065 -1.9372895
6 -0.16623248]
Round3864-------squared error: 3.9133 parameter: [18.39799993  0.69881719 -1.9373108
4 -0.16622895]
Round3865-------squared error: 3.9133 parameter: [18.39799993  0.69879375 -1.9373321
1 -0.16622541]
Round3866-------squared error: 3.9133 parameter: [18.39799993  0.69877033 -1.9373533
5 -0.16622189]
Round3867-------squared error: 3.9133 parameter: [18.39799993  0.69874694 -1.9373745
7 -0.16621836]
Round3868-------squared error: 3.9133 parameter: [18.39799993  0.69872356 -1.9373957
7 -0.16621484]
Round3869-------squared error: 3.9133 parameter: [18.39799993  0.69870021 -1.9374169
5 -0.16621132]
Round3870-------squared error: 3.9133 parameter: [18.39799993  0.69867689 -1.9374381
1 -0.16620781]
Round3871-------squared error: 3.9133 parameter: [18.39799993  0.69865358 -1.9374592
5 -0.1662043 ]
Round3872-------squared error: 3.9133 parameter: [18.39799993  0.6986303  -1.9374803
7 -0.16620079]
```

```
Round3873-------squared error: 3.9133 parameter: [18.39799993  0.69860704 -1.9375014
7 -0.16619728]
Round3874-------squared error: 3.9133 parameter: [18.39799993  0.6985838  -1.9375225
5 -0.16619378]
Round3875-------squared error: 3.9133 parameter: [18.39799993  0.69856058 -1.9375436
-0.16619028]
Round3876-------squared error: 3.9133 parameter: [18.39799994  0.69853739 -1.9375646
4 -0.16618679]
Round3877-------squared error: 3.9133 parameter: [18.39799994  0.69851422 -1.9375856
6 -0.1661833 ]
Round3878-------squared error: 3.9133 parameter: [18.39799994  0.69849107 -1.9376066
6 -0.16617981]
Round3879-------squared error: 3.9133 parameter: [18.39799994  0.69846794 -1.9376276
3 -0.16617632]
Round3880-------squared error: 3.9133 parameter: [18.39799994  0.69844484 -1.9376485
9 -0.16617284]
Round3881-------squared error: 3.9133 parameter: [18.39799994  0.69842175 -1.9376695
3 -0.16616936]
Round3882-------squared error: 3.9133 parameter: [18.39799994  0.69839869 -1.9376904
4 -0.16616589]
Round3883-------squared error: 3.9133 parameter: [18.39799994  0.69837565 -1.9377113
4 -0.16616242]
Round3884-------squared error: 3.9133 parameter: [18.39799994  0.69835264 -1.9377322
1 -0.16615895]
Round3885-------squared error: 3.9133 parameter: [18.39799994  0.69832965 -1.9377530
7 -0.16615548]
Round3886-------squared error: 3.9133 parameter: [18.39799994  0.69830667 -1.9377739
-0.16615202]
Round3887-------squared error: 3.9133 parameter: [18.39799994  0.69828372 -1.9377947
2 -0.16614856]
Round3888-------squared error: 3.9133 parameter: [18.39799994  0.6982608  -1.9378155
2 -0.1661451 ]
Round3889-------squared error: 3.9133 parameter: [18.39799994  0.69823789 -1.9378362
9 -0.16614165]
Round3890-------squared error: 3.9133 parameter: [18.39799994  0.69821501 -1.9378570
5 -0.1661382 ]
Round3891-------squared error: 3.9133 parameter: [18.39799994  0.69819215 -1.9378777
8 -0.16613475]
Round3892-------squared error: 3.9133 parameter: [18.39799994  0.69816931 -1.9378985
-0.16613131]
Round3893-------squared error: 3.9133 parameter: [18.39799994  0.69814649 -1.9379191
9 -0.16612787]
Round3894-------squared error: 3.9133 parameter: [18.39799994  0.69812369 -1.9379398
7 -0.16612443]
Round3895-------squared error: 3.9133 parameter: [18.39799994  0.69810092 -1.9379605
2 -0.166121  ]
Round3896-------squared error: 3.9133 parameter: [18.39799994  0.69807817 -1.9379811
6 -0.16611757]
Round3897-------squared error: 3.9133 parameter: [18.39799994  0.69805544 -1.9380017
7 -0.16611414]
Round3898-------squared error: 3.9133 parameter: [18.39799994  0.69803273 -1.9380223
7 -0.16611072]
Round3899-------squared error: 3.9133 parameter: [18.39799994  0.69801004 -1.9380429
4 -0.1661073 ]
Round3900-------squared error: 3.9133 parameter: [18.39799994  0.69798738 -1.9380635
-0.16610388]
Round3901-------squared error: 3.9133 parameter: [18.39799994  0.69796474 -1.9380840
3 -0.16610047]
Round3902-------squared error: 3.9133 parameter: [18.39799994  0.69794212 -1.9381045
5 -0.16609706]
Round3903-------squared error: 3.9133 parameter: [18.39799994  0.69791952 -1.9381250
5 -0.16609365]
Round3904-------squared error: 3.9133 parameter: [18.39799994  0.69789694 -1.9381455
2 -0.16609024]
```

```
Round3905-------squared error: 3.9133 parameter: [18.39799994  0.69787439 -1.9381659
8 -0.16608684]
Round3906-------squared error: 3.9133 parameter: [18.39799994  0.69785185 -1.9381864
2 -0.16608344]
Round3907-------squared error: 3.9133 parameter: [18.39799994  0.69782934 -1.9382068
3 -0.16608005]
Round3908-------squared error: 3.9133 parameter: [18.39799994  0.69780685 -1.9382272
3 -0.16607666]
Round3909-------squared error: 3.9133 parameter: [18.39799995  0.69778438 -1.9382476
1 -0.16607327]
Round3910-------squared error: 3.9133 parameter: [18.39799995  0.69776193 -1.9382679
7 -0.16606988]
Round3911-------squared error: 3.9133 parameter: [18.39799995  0.69773951 -1.9382883
-0.1660665 ]
Round3912-------squared error: 3.9133 parameter: [18.39799995  0.6977171  -1.9383086
2 -0.16606312]
Round3913-------squared error: 3.9133 parameter: [18.39799995  0.69769472 -1.9383289
2 -0.16605975]
Round3914-------squared error: 3.9133 parameter: [18.39799995  0.69767236 -1.9383492
-0.16605637]
Round3915-------squared error: 3.9133 parameter: [18.39799995  0.69765002 -1.9383694
6 -0.166053  ]
Round3916-------squared error: 3.9133 parameter: [18.39799995  0.6976277  -1.9383897
-0.16604964]
Round3917-------squared error: 3.9133 parameter: [18.39799995  0.6976054  -1.9384099
2 -0.16604627]
Round3918-------squared error: 3.9133 parameter: [18.39799995  0.69758313 -1.9384301
2 -0.16604291]
Round3919-------squared error: 3.9133 parameter: [18.39799995  0.69756088 -1.9384503
1 -0.16603956]
Round3920-------squared error: 3.9133 parameter: [18.39799995  0.69753864 -1.9384704
7 -0.1660362 ]
Round3921-------squared error: 3.9133 parameter: [18.39799995  0.69751643 -1.9384906
1 -0.16603285]
Round3922-------squared error: 3.9133 parameter: [18.39799995  0.69749424 -1.9385107
4 -0.1660295 ]
Round3923-------squared error: 3.9133 parameter: [18.39799995  0.69747207 -1.9385308
4 -0.16602616]
Round3924-------squared error: 3.9133 parameter: [18.39799995  0.69744993 -1.9385509
2 -0.16602282]
Round3925-------squared error: 3.9133 parameter: [18.39799995  0.6974278  -1.9385709
9 -0.16601948]
Round3926-------squared error: 3.9133 parameter: [18.39799995  0.6974057  -1.9385910
4 -0.16601614]
Round3927-------squared error: 3.9133 parameter: [18.39799995  0.69738361 -1.9386110
6 -0.16601281]
Round3928-------squared error: 3.9133 parameter: [18.39799995  0.69736155 -1.9386310
7 -0.16600948]
Round3929-------squared error: 3.9133 parameter: [18.39799995  0.69733951 -1.9386510
6 -0.16600616]
Round3930-------squared error: 3.9133 parameter: [18.39799995  0.69731749 -1.9386710
3 -0.16600284]
Round3931-------squared error: 3.9133 parameter: [18.39799995  0.69729549 -1.9386909
8 -0.16599952]
Round3932-------squared error: 3.9133 parameter: [18.39799995  0.69727352 -1.9387109
1 -0.1659962 ]
Round3933-------squared error: 3.9132 parameter: [18.39799995  0.69725156 -1.9387308
2 -0.16599289]
Round3934-------squared error: 3.9132 parameter: [18.39799995  0.69722963 -1.9387507
1 -0.16598958]
Round3935-------squared error: 3.9132 parameter: [18.39799995  0.69720771 -1.9387705
8 -0.16598627]
Round3936-------squared error: 3.9132 parameter: [18.39799995  0.69718582 -1.9387904
3 -0.16598296]
```

```
Round3937-------squared error: 3.9132 parameter: [18.39799995  0.69716395 -1.9388102
7 -0.16597966]
Round3938-------squared error: 3.9132 parameter: [18.39799995  0.6971421  -1.9388300
8 -0.16597637]
Round3939-------squared error: 3.9132 parameter: [18.39799995  0.69712027 -1.9388498
8 -0.16597307]
Round3940-------squared error: 3.9132 parameter: [18.39799995  0.69709846 -1.9388696
6 -0.16596978]
Round3941-------squared error: 3.9132 parameter: [18.39799995  0.69707667 -1.9388894
1 -0.16596649]
Round3942-------squared error: 3.9132 parameter: [18.39799995  0.69705491 -1.9389091
5 -0.16596321]
Round3943-------squared error: 3.9132 parameter: [18.39799995  0.69703316 -1.9389288
7 -0.16595992]
Round3944-------squared error: 3.9132 parameter: [18.39799995  0.69701143 -1.9389485
7 -0.16595664]
Round3945-------squared error: 3.9132 parameter: [18.39799995  0.69698973 -1.9389682
5 -0.16595337]
Round3946-------squared error: 3.9132 parameter: [18.39799995  0.69696805 -1.9389879
2 -0.16595009]
Round3947-------squared error: 3.9132 parameter: [18.39799995  0.69694639 -1.9390075
6 -0.16594682]
Round3948-------squared error: 3.9132 parameter: [18.39799995  0.69692474 -1.9390271
8 -0.16594356]
Round3949-------squared error: 3.9132 parameter: [18.39799996  0.69690312 -1.9390467
9 -0.16594029]
Round3950-------squared error: 3.9132 parameter: [18.39799996  0.69688152 -1.9390663
8 -0.16593703]
Round3951-------squared error: 3.9132 parameter: [18.39799996  0.69685994 -1.9390859
4 -0.16593378]
Round3952-------squared error: 3.9132 parameter: [18.39799996  0.69683839 -1.9391054
9 -0.16593052]
Round3953-------squared error: 3.9132 parameter: [18.39799996  0.69681685 -1.9391250
2 -0.16592727]
Round3954-------squared error: 3.9132 parameter: [18.39799996  0.69679533 -1.9391445
3 -0.16592402]
Round3955-------squared error: 3.9132 parameter: [18.39799996  0.69677384 -1.9391640
3 -0.16592077]
Round3956-------squared error: 3.9132 parameter: [18.39799996  0.69675236 -1.9391835
-0.16591753]
Round3957-------squared error: 3.9132 parameter: [18.39799996  0.69673091 -1.9392029
6 -0.16591429]
Round3958-------squared error: 3.9132 parameter: [18.39799996  0.69670947 -1.9392223
9 -0.16591106]
Round3959-------squared error: 3.9132 parameter: [18.39799996  0.69668806 -1.9392418
1 -0.16590782]
Round3960-------squared error: 3.9132 parameter: [18.39799996  0.69666667 -1.9392612
1 -0.16590459]
Round3961-------squared error: 3.9132 parameter: [18.39799996  0.69664529 -1.9392805
9 -0.16590136]
Round3962-------squared error: 3.9132 parameter: [18.39799996  0.69662394 -1.9392999
5 -0.16589814]
Round3963-------squared error: 3.9132 parameter: [18.39799996  0.69660261 -1.9393192
9 -0.16589492]
Round3964-------squared error: 3.9132 parameter: [18.39799996  0.6965813  -1.9393386
1 -0.1658917 ]
Round3965-------squared error: 3.9132 parameter: [18.39799996  0.69656001 -1.9393579
2 -0.16588849]
Round3966-------squared error: 3.9132 parameter: [18.39799996  0.69653874 -1.9393772
1 -0.16588527]
Round3967-------squared error: 3.9132 parameter: [18.39799996  0.69651749 -1.9393964
7 -0.16588206]
Round3968-------squared error: 3.9132 parameter: [18.39799996  0.69649626 -1.9394157
2 -0.16587886]
```

```
Round3969-------squared error: 3.9132 parameter: [18.39799996  0.69647505 -1.9394349
5 -0.16587566]
Round3970-------squared error: 3.9132 parameter: [18.39799996  0.69645387 -1.9394541
7 -0.16587245]
Round3971-------squared error: 3.9132 parameter: [18.39799996  0.6964327  -1.9394733
6 -0.16586926]
Round3972-------squared error: 3.9132 parameter: [18.39799996  0.69641155 -1.9394925
3 -0.16586606]
Round3973-------squared error: 3.9132 parameter: [18.39799996  0.69639042 -1.9395116
9 -0.16586287]
Round3974-------squared error: 3.9132 parameter: [18.39799996  0.69636932 -1.9395308
3 -0.16585968]
Round3975-------squared error: 3.9132 parameter: [18.39799996  0.69634823 -1.9395499
5 -0.1658565 ]
Round3976-------squared error: 3.9132 parameter: [18.39799996  0.69632716 -1.9395690
5 -0.16585332]
Round3977-------squared error: 3.9132 parameter: [18.39799996  0.69630612 -1.9395881
3 -0.16585014]
Round3978-------squared error: 3.9132 parameter: [18.39799996  0.69628509 -1.9396072
-0.16584696]
Round3979-------squared error: 3.9132 parameter: [18.39799996  0.69626409 -1.9396262
4 -0.16584379]
Round3980-------squared error: 3.9132 parameter: [18.39799996  0.6962431  -1.9396452
7 -0.16584062]
Round3981-------squared error: 3.9132 parameter: [18.39799996  0.69622214 -1.9396642
8 -0.16583745]
Round3982-------squared error: 3.9132 parameter: [18.39799996  0.69620119 -1.9396832
7 -0.16583429]
Round3983-------squared error: 3.9132 parameter: [18.39799996  0.69618027 -1.9397022
4 -0.16583113]
Round3984-------squared error: 3.9132 parameter: [18.39799996  0.69615936 -1.9397212
-0.16582797]
Round3985-------squared error: 3.9132 parameter: [18.39799996  0.69613848 -1.9397401
3 -0.16582481]
Round3986-------squared error: 3.9132 parameter: [18.39799996  0.69611762 -1.9397590
5 -0.16582166]
Round3987-------squared error: 3.9132 parameter: [18.39799996  0.69609677 -1.9397779
5 -0.16581851]
Round3988-------squared error: 3.9132 parameter: [18.39799996  0.69607595 -1.9397968
3 -0.16581536]
Round3989-------squared error: 3.9132 parameter: [18.39799996  0.69605514 -1.9398156
9 -0.16581222]
Round3990-------squared error: 3.9132 parameter: [18.39799996  0.69603436 -1.9398345
4 -0.16580908]
Round3991-------squared error: 3.9132 parameter: [18.39799996  0.6960136  -1.9398533
7 -0.16580594]
Round3992-------squared error: 3.9132 parameter: [18.39799996  0.69599285 -1.9398721
7 -0.16580281]
Round3993-------squared error: 3.9132 parameter: [18.39799996  0.69597213 -1.9398909
6 -0.16579968]
Round3994-------squared error: 3.9132 parameter: [18.39799996  0.69595142 -1.9399097
4 -0.16579655]
Round3995-------squared error: 3.9132 parameter: [18.39799996  0.69593074 -1.9399284
9 -0.16579342]
Round3996-------squared error: 3.9132 parameter: [18.39799996  0.69591007 -1.9399472
3 -0.1657903 ]
Round3997-------squared error: 3.9132 parameter: [18.39799996  0.69588943 -1.9399659
4 -0.16578718]
Round3998-------squared error: 3.9132 parameter: [18.39799996  0.6958688  -1.9399846
4 -0.16578406]
Round3999-------squared error: 3.9132 parameter: [18.39799997  0.6958482  -1.9400033
3 -0.16578095]
Round4000-------squared error: 3.9132 parameter: [18.39799997  0.69582761 -1.9400219
9 -0.16577784]
```

```
Round4001-------squared error: 3.9132 parameter: [18.39799997  0.69580705 -1.9400406
4 -0.16577473]
Round4002-------squared error: 3.9132 parameter: [18.39799997  0.6957865  -1.9400592
6 -0.16577162]
Round4003-------squared error: 3.9132 parameter: [18.39799997  0.69576598 -1.9400778
7 -0.16576852]
Round4004-------squared error: 3.9132 parameter: [18.39799997  0.69574547 -1.9400964
6 -0.16576542]
Round4005-------squared error: 3.9132 parameter: [18.39799997  0.69572499 -1.9401150
4 -0.16576232]
Round4006-------squared error: 3.9132 parameter: [18.39799997  0.69570452 -1.9401335
9 -0.16575923]
Round4007-------squared error: 3.9132 parameter: [18.39799997  0.69568407 -1.9401521
3 -0.16575614]
Round4008-------squared error: 3.9132 parameter: [18.39799997  0.69566365 -1.9401706
5 -0.16575305]
Round4009-------squared error: 3.9132 parameter: [18.39799997  0.69564324 -1.9401891
5 -0.16574997]
Round4010-------squared error: 3.9132 parameter: [18.39799997  0.69562285 -1.9402076
4 -0.16574689]
Round4011-------squared error: 3.9132 parameter: [18.39799997  0.69560248 -1.9402261
1 -0.16574381]
Round4012-------squared error: 3.9132 parameter: [18.39799997  0.69558213 -1.9402445
5 -0.16574073]
Round4013-------squared error: 3.9132 parameter: [18.39799997  0.6955618  -1.9402629
9 -0.16573766]
Round4014-------squared error: 3.9132 parameter: [18.39799997  0.69554149 -1.9402814
-0.16573459]
Round4015-------squared error: 3.9132 parameter: [18.39799997  0.6955212  -1.9402997
9 -0.16573152]
Round4016-------squared error: 3.9132 parameter: [18.39799997  0.69550093 -1.9403181
7 -0.16572845]
Round4017-------squared error: 3.9132 parameter: [18.39799997  0.69548068 -1.9403365
3 -0.16572539]
Round4018-------squared error: 3.9132 parameter: [18.39799997  0.69546045 -1.9403548
7 -0.16572233]
Round4019-------squared error: 3.9132 parameter: [18.39799997  0.69544024 -1.9403732
-0.16571928]
Round4020-------squared error: 3.9132 parameter: [18.39799997  0.69542005 -1.9403915
1 -0.16571622]
Round4021-------squared error: 3.9132 parameter: [18.39799997  0.69539987 -1.9404097
9 -0.16571317]
Round4022-------squared error: 3.9132 parameter: [18.39799997  0.69537972 -1.9404280
7 -0.16571013]
Round4023-------squared error: 3.9132 parameter: [18.39799997  0.69535959 -1.9404463
2 -0.16570708]
Round4024-------squared error: 3.9132 parameter: [18.39799997  0.69533947 -1.9404645
6 -0.16570404]
Round4025-------squared error: 3.9132 parameter: [18.39799997  0.69531938 -1.9404827
7 -0.165701  ]
Round4026-------squared error: 3.9132 parameter: [18.39799997  0.6952993  -1.9405009
8 -0.16569797]
Round4027-------squared error: 3.9132 parameter: [18.39799997  0.69527924 -1.9405191
6 -0.16569493]
Round4028-------squared error: 3.9132 parameter: [18.39799997  0.6952592  -1.9405373
3 -0.1656919 ]
Round4029-------squared error: 3.9132 parameter: [18.39799997  0.69523919 -1.9405554
7 -0.16568888]
Round4030-------squared error: 3.9132 parameter: [18.39799997  0.69521919 -1.9405736
-0.16568585]
Round4031-------squared error: 3.9132 parameter: [18.39799997  0.69519921 -1.9405917
2 -0.16568283]
Round4032-------squared error: 3.9132 parameter: [18.39799997  0.69517925 -1.9406098
1 -0.16567981]
```

```
Round4033-------squared error: 3.9132 parameter: [18.39799997  0.6951593  -1.9406278
9 -0.1656768 ]
Round4034-------squared error: 3.9132 parameter: [18.39799997  0.69513938 -1.9406459
5 -0.16567378]
Round4035-------squared error: 3.9132 parameter: [18.39799997  0.69511948 -1.940664
-0.16567077]
Round4036-------squared error: 3.9132 parameter: [18.39799997  0.69509959 -1.9406820
2 -0.16566776]
Round4037-------squared error: 3.9132 parameter: [18.39799997  0.69507973 -1.9407000
3 -0.16566476]
Round4038-------squared error: 3.9132 parameter: [18.39799997  0.69505988 -1.9407180
2 -0.16566176]
Round4039-------squared error: 3.9132 parameter: [18.39799997  0.69504006 -1.940736
-0.16565876]
Round4040-------squared error: 3.9132 parameter: [18.39799997  0.69502025 -1.9407539
6 -0.16565576]
Round4041-------squared error: 3.9132 parameter: [18.39799997  0.69500046 -1.9407719
-0.16565277]
Round4042-------squared error: 3.9132 parameter: [18.39799997  0.69498069 -1.9407898
2 -0.16564978]
Round4043-------squared error: 3.9132 parameter: [18.39799997  0.69496094 -1.9408077
2 -0.16564679]
Round4044-------squared error: 3.9132 parameter: [18.39799997  0.69494121 -1.9408256
1 -0.16564381]
Round4045-------squared error: 3.9132 parameter: [18.39799997  0.6949215  -1.9408434
8 -0.16564083]
Round4046-------squared error: 3.9132 parameter: [18.39799997  0.6949018  -1.9408613
3 -0.16563785]
Round4047-------squared error: 3.9132 parameter: [18.39799997  0.69488213 -1.9408791
7 -0.16563487]
Round4048-------squared error: 3.9132 parameter: [18.39799997  0.69486247 -1.9408969
9 -0.1656319 ]
Round4049-------squared error: 3.9132 parameter: [18.39799997  0.69484284 -1.9409147
9 -0.16562893]
Round4050-------squared error: 3.9132 parameter: [18.39799997  0.69482322 -1.9409325
7 -0.16562596]
Round4051-------squared error: 3.9132 parameter: [18.39799997  0.69480362 -1.9409503
4 -0.16562299]
Round4052-------squared error: 3.9132 parameter: [18.39799997  0.69478404 -1.9409680
9 -0.16562003]
Round4053-------squared error: 3.9132 parameter: [18.39799997  0.69476448 -1.9409858
2 -0.16561707]
Round4054-------squared error: 3.9132 parameter: [18.39799997  0.69474494 -1.9410035
4 -0.16561411]
Round4055-------squared error: 3.9132 parameter: [18.39799997  0.69472541 -1.9410212
4 -0.16561116]
Round4056-------squared error: 3.9132 parameter: [18.39799997  0.69470591 -1.9410389
2 -0.16560821]
Round4057-------squared error: 3.9132 parameter: [18.39799997  0.69468642 -1.9410565
8 -0.16560526]
Round4058-------squared error: 3.9132 parameter: [18.39799997  0.69466695 -1.9410742
3 -0.16560231]
Round4059-------squared error: 3.9132 parameter: [18.39799997  0.6946475  -1.9410918
6 -0.16559937]
Round4060-------squared error: 3.9132 parameter: [18.39799997  0.69462807 -1.9411094
8 -0.16559643]
Round4061-------squared error: 3.9132 parameter: [18.39799997  0.69460866 -1.9411270
7 -0.16559349]
Round4062-------squared error: 3.9132 parameter: [18.39799997  0.69458927 -1.9411446
5 -0.16559056]
Round4063-------squared error: 3.9132 parameter: [18.39799997  0.6945699  -1.9411622
2 -0.16558763]
Round4064-------squared error: 3.9132 parameter: [18.39799997  0.69455054 -1.9411797
6 -0.1655847 ]
```

```
Round4065-------squared error: 3.9132 parameter: [18.39799997  0.6945312  -1.9411972
9 -0.16558177]
Round4066-------squared error: 3.9132 parameter: [18.39799998  0.69451189 -1.9412148
-0.16557885]
Round4067-------squared error: 3.9132 parameter: [18.39799998  0.69449259 -1.9412323
-0.16557593]
Round4068-------squared error: 3.9132 parameter: [18.39799998  0.69447331 -1.9412497
7 -0.16557301]
Round4069-------squared error: 3.9132 parameter: [18.39799998  0.69445404 -1.9412672
4 -0.1655701 ]
Round4070-------squared error: 3.9132 parameter: [18.39799998  0.6944348  -1.9412846
8 -0.16556718]
Round4071-------squared error: 3.9132 parameter: [18.39799998  0.69441557 -1.9413021
1 -0.16556427]
Round4072-------squared error: 3.9132 parameter: [18.39799998  0.69439637 -1.9413195
2 -0.16556137]
Round4073-------squared error: 3.9132 parameter: [18.39799998  0.69437718 -1.9413369
1 -0.16555846]
Round4074-------squared error: 3.9132 parameter: [18.39799998  0.69435801 -1.9413542
9 -0.16555556]
Round4075-------squared error: 3.9132 parameter: [18.39799998  0.69433886 -1.9413716
5 -0.16555266]
Round4076-------squared error: 3.9132 parameter: [18.39799998  0.69431972 -1.9413889
9 -0.16554977]
Round4077-------squared error: 3.9132 parameter: [18.39799998  0.69430061 -1.9414063
2 -0.16554687]
Round4078-------squared error: 3.9132 parameter: [18.39799998  0.69428151 -1.9414236
3 -0.16554398]
Round4079-------squared error: 3.9132 parameter: [18.39799998  0.69426244 -1.9414409
2 -0.16554109]
Round4080-------squared error: 3.9132 parameter: [18.39799998  0.69424338 -1.9414582
-0.16553821]
Round4081-------squared error: 3.9132 parameter: [18.39799998  0.69422434 -1.9414754
6 -0.16553533]
Round4082-------squared error: 3.9132 parameter: [18.39799998  0.69420531 -1.9414927
-0.16553245]
Round4083-------squared error: 3.9132 parameter: [18.39799998  0.69418631 -1.9415099
3 -0.16552957]
Round4084-------squared error: 3.9132 parameter: [18.39799998  0.69416732 -1.9415271
4 -0.1655267 ]
Round4085-------squared error: 3.9132 parameter: [18.39799998  0.69414835 -1.9415443
4 -0.16552383]
Round4086-------squared error: 3.9132 parameter: [18.39799998  0.6941294  -1.9415615
1 -0.16552096]
Round4087-------squared error: 3.9132 parameter: [18.39799998  0.69411047 -1.9415786
7 -0.16551809]
Round4088-------squared error: 3.9132 parameter: [18.39799998  0.69409156 -1.9415958
2 -0.16551523]
Round4089-------squared error: 3.9132 parameter: [18.39799998  0.69407266 -1.9416129
4 -0.16551237]
Round4090-------squared error: 3.9132 parameter: [18.39799998  0.69405379 -1.9416300
5 -0.16550951]
Round4091-------squared error: 3.9132 parameter: [18.39799998  0.69403493 -1.9416471
5 -0.16550665]
Round4092-------squared error: 3.9132 parameter: [18.39799998  0.69401609 -1.9416642
3 -0.1655038 ]
Round4093-------squared error: 3.9132 parameter: [18.39799998  0.69399726 -1.9416812
9 -0.16550095]
Round4094-------squared error: 3.9132 parameter: [18.39799998  0.69397846 -1.9416983
3 -0.1654981 ]
Round4095-------squared error: 3.9132 parameter: [18.39799998  0.69395967 -1.9417153
6 -0.16549526]
Round4096-------squared error: 3.9132 parameter: [18.39799998  0.69394091 -1.9417323
7 -0.16549242]
```

```
Round4097-------squared error: 3.9132 parameter: [18.39799998  0.69392216 -1.9417493
7 -0.16548958]
Round4098-------squared error: 3.9132 parameter: [18.39799998  0.69390342 -1.9417663
5 -0.16548674]
Round4099-------squared error: 3.9132 parameter: [18.39799998  0.69388471 -1.9417833
1 -0.16548391]
Round4100-------squared error: 3.9132 parameter: [18.39799998  0.69386601 -1.9418002
6 -0.16548108]
Round4101-------squared error: 3.9132 parameter: [18.39799998  0.69384733 -1.9418171
9 -0.16547825]
Round4102-------squared error: 3.9132 parameter: [18.39799998  0.69382867 -1.9418341
-0.16547542]
Round4103-------squared error: 3.9132 parameter: [18.39799998  0.69381003 -1.941851
-0.1654726 ]
Round4104-------squared error: 3.9132 parameter: [18.39799998  0.69379141 -1.9418678
8 -0.16546978]
Round4105-------squared error: 3.9132 parameter: [18.39799998  0.6937728  -1.9418847
5 -0.16546696]
Round4106-------squared error: 3.9132 parameter: [18.39799998  0.69375421 -1.9419016
-0.16546415]
Round4107-------squared error: 3.9132 parameter: [18.39799998  0.69373564 -1.9419184
3 -0.16546133]
Round4108-------squared error: 3.9132 parameter: [18.39799998  0.69371709 -1.9419352
4 -0.16545852]
Round4109-------squared error: 3.9132 parameter: [18.39799998  0.69369856 -1.9419520
4 -0.16545572]
Round4110-------squared error: 3.9132 parameter: [18.39799998  0.69368004 -1.9419688
3 -0.16545291]
Round4111-------squared error: 3.9132 parameter: [18.39799998  0.69366154 -1.9419856
-0.16545011]
Round4112-------squared error: 3.9132 parameter: [18.39799998  0.69364306 -1.9420023
5 -0.16544731]
Round4113-------squared error: 3.9132 parameter: [18.39799998  0.69362459 -1.9420190
8 -0.16544452]
Round4114-------squared error: 3.9132 parameter: [18.39799998  0.69360615 -1.9420358
-0.16544172]
Round4115-------squared error: 3.9132 parameter: [18.39799998  0.69358772 -1.9420525
-0.16543893]
Round4116-------squared error: 3.9132 parameter: [18.39799998  0.69356931 -1.9420691
9 -0.16543614]
Round4117-------squared error: 3.9132 parameter: [18.39799998  0.69355092 -1.9420858
6 -0.16543336]
Round4118-------squared error: 3.9132 parameter: [18.39799998  0.69353254 -1.9421025
2 -0.16543057]
Round4119-------squared error: 3.9132 parameter: [18.39799998  0.69351418 -1.9421191
6 -0.16542779]
Round4120-------squared error: 3.9132 parameter: [18.39799998  0.69349585 -1.9421357
8 -0.16542501]
Round4121-------squared error: 3.9132 parameter: [18.39799998  0.69347752 -1.9421523
8 -0.16542224]
Round4122-------squared error: 3.9132 parameter: [18.39799998  0.69345922 -1.9421689
8 -0.16541947]
Round4123-------squared error: 3.9132 parameter: [18.39799998  0.69344093 -1.9421855
5 -0.1654167 ]
Round4124-------squared error: 3.9132 parameter: [18.39799998  0.69342266 -1.9422021
1 -0.16541393]
Round4125-------squared error: 3.9132 parameter: [18.39799998  0.69340441 -1.9422186
5 -0.16541116]
Round4126-------squared error: 3.9132 parameter: [18.39799998  0.69338618 -1.9422351
8 -0.1654084 ]
Round4127-------squared error: 3.9132 parameter: [18.39799998  0.69336796 -1.9422516
9 -0.16540564]
Round4128-------squared error: 3.9132 parameter: [18.39799998  0.69334976 -1.9422681
8 -0.16540288]
```

```
Round4129-------squared error: 3.9132 parameter: [18.39799998  0.69333158 -1.9422846
6 -0.16540013]
Round4130-------squared error: 3.9132 parameter: [18.39799998  0.69331342 -1.9423011
3 -0.16539738]
Round4131-------squared error: 3.9132 parameter: [18.39799998  0.69329527 -1.9423175
7 -0.16539463]
Round4132-------squared error: 3.9132 parameter: [18.39799998  0.69327714 -1.942334
-0.16539188]
Round4133-------squared error: 3.9132 parameter: [18.39799998  0.69325903 -1.9423504
2 -0.16538914]
Round4134-------squared error: 3.9132 parameter: [18.39799998  0.69324094 -1.9423668
2 -0.1653864 ]
Round4135-------squared error: 3.9132 parameter: [18.39799998  0.69322286 -1.9423832
-0.16538366]
Round4136-------squared error: 3.9132 parameter: [18.39799998  0.6932048  -1.9423995
7 -0.16538092]
Round4137-------squared error: 3.9132 parameter: [18.39799998  0.69318676 -1.9424159
2 -0.16537819]
Round4138-------squared error: 3.9132 parameter: [18.39799998  0.69316873 -1.9424322
6 -0.16537546]
Round4139-------squared error: 3.9132 parameter: [18.39799998  0.69315073 -1.9424485
8 -0.16537273]
Round4140-------squared error: 3.9132 parameter: [18.39799998  0.69313274 -1.9424648
8 -0.16537   ]
Round4141-------squared error: 3.9132 parameter: [18.39799998  0.69311476 -1.9424811
7 -0.16536728]
Round4142-------squared error: 3.9132 parameter: [18.39799998  0.69309681 -1.9424974
5 -0.16536456]
Round4143-------squared error: 3.9132 parameter: [18.39799998  0.69307887 -1.9425137
1 -0.16536184]
Round4144-------squared error: 3.9132 parameter: [18.39799998  0.69306095 -1.9425299
5 -0.16535912]
Round4145-------squared error: 3.9132 parameter: [18.39799998  0.69304305 -1.9425461
7 -0.16535641]
Round4146-------squared error: 3.9132 parameter: [18.39799998  0.69302516 -1.9425623
8 -0.1653537 ]
Round4147-------squared error: 3.9132 parameter: [18.39799998  0.69300729 -1.9425785
8 -0.16535099]
Round4148-------squared error: 3.9132 parameter: [18.39799998  0.69298944 -1.9425947
6 -0.16534829]
Round4149-------squared error: 3.9132 parameter: [18.39799998  0.6929716  -1.9426109
2 -0.16534558]
Round4150-------squared error: 3.9132 parameter: [18.39799998  0.69295379 -1.9426270
7 -0.16534288]
Round4151-------squared error: 3.9132 parameter: [18.39799998  0.69293599 -1.9426432
-0.16534019]
Round4152-------squared error: 3.9132 parameter: [18.39799998  0.6929182  -1.9426593
2 -0.16533749]
Round4153-------squared error: 3.9132 parameter: [18.39799998  0.69290044 -1.9426754
2 -0.1653348 ]
Round4154-------squared error: 3.9132 parameter: [18.39799998  0.69288269 -1.9426915
1 -0.16533211]
Round4155-------squared error: 3.9132 parameter: [18.39799998  0.69286495 -1.9427075
8 -0.16532942]
Round4156-------squared error: 3.9132 parameter: [18.39799998  0.69284724 -1.9427236
4 -0.16532674]
Round4157-------squared error: 3.9132 parameter: [18.39799998  0.69282954 -1.9427396
8 -0.16532405]
Round4158-------squared error: 3.9132 parameter: [18.39799998  0.69281186 -1.9427557
-0.16532137]
Round4159-------squared error: 3.9132 parameter: [18.39799998  0.6927942  -1.9427717
1 -0.1653187 ]
Round4160-------squared error: 3.9132 parameter: [18.39799998  0.69277655 -1.9427877
-0.16531602]
```

```
Round4161-------squared error: 3.9132 parameter: [18.39799998  0.69275892 -1.9428036
8 -0.16531335]
Round4162-------squared error: 3.9132 parameter: [18.39799998  0.69274131 -1.9428196
4 -0.16531068]
Round4163-------squared error: 3.9132 parameter: [18.39799998  0.69272371 -1.9428355
9 -0.16530801]
Round4164-------squared error: 3.9132 parameter: [18.39799998  0.69270613 -1.9428515
2 -0.16530535]
Round4165-------squared error: 3.9132 parameter: [18.39799998  0.69268857 -1.9428674
4 -0.16530269]
Round4166-------squared error: 3.9132 parameter: [18.39799998  0.69267102 -1.9428833
4 -0.16530003]
Round4167-------squared error: 3.9132 parameter: [18.39799998  0.6926535  -1.9428992
2 -0.16529737]
Round4168-------squared error: 3.9132 parameter: [18.39799999  0.69263599 -1.9429150
9 -0.16529471]
Round4169-------squared error: 3.9132 parameter: [18.39799999  0.69261849 -1.9429309
5 -0.16529206]
Round4170-------squared error: 3.9132 parameter: [18.39799999  0.69260101 -1.9429467
9 -0.16528941]
Round4171-------squared error: 3.9132 parameter: [18.39799999  0.69258355 -1.9429626
1 -0.16528677]
Round4172-------squared error: 3.9132 parameter: [18.39799999  0.69256611 -1.9429784
2 -0.16528412]
Round4173-------squared error: 3.9132 parameter: [18.39799999  0.69254868 -1.9429942
2 -0.16528148]
Round4174-------squared error: 3.9132 parameter: [18.39799999  0.69253127 -1.94301
-0.16527884]
Round4175-------squared error: 3.9132 parameter: [18.39799999  0.69251388 -1.9430257
6 -0.1652762 ]
Round4176-------squared error: 3.9132 parameter: [18.39799999  0.6924965  -1.9430415
1 -0.16527357]
Round4177-------squared error: 3.9132 parameter: [18.39799999  0.69247914 -1.9430572
4 -0.16527094]
Round4178-------squared error: 3.9132 parameter: [18.39799999  0.69246179 -1.9430729
6 -0.16526831]
Round4179-------squared error: 3.9132 parameter: [18.39799999  0.69244447 -1.9430886
6 -0.16526568]
Round4180-------squared error: 3.9132 parameter: [18.39799999  0.69242716 -1.9431043
5 -0.16526306]
Round4181-------squared error: 3.9132 parameter: [18.39799999  0.69240986 -1.9431200
2 -0.16526043]
Round4182-------squared error: 3.9132 parameter: [18.39799999  0.69239259 -1.9431356
8 -0.16525781]
Round4183-------squared error: 3.9132 parameter: [18.39799999  0.69237533 -1.9431513
2 -0.1652552 ]
Round4184-------squared error: 3.9132 parameter: [18.39799999  0.69235808 -1.9431669
5 -0.16525258]
Round4185-------squared error: 3.9132 parameter: [18.39799999  0.69234085 -1.9431825
6 -0.16524997]
Round4186-------squared error: 3.9132 parameter: [18.39799999  0.69232364 -1.9431981
6 -0.16524736]
Round4187-------squared error: 3.9132 parameter: [18.39799999  0.69230645 -1.9432137
4 -0.16524475]
Round4188-------squared error: 3.9132 parameter: [18.39799999  0.69228927 -1.9432293
1 -0.16524215]
Round4189-------squared error: 3.9132 parameter: [18.39799999  0.69227211 -1.9432448
6 -0.16523955]
Round4190-------squared error: 3.9132 parameter: [18.39799999  0.69225497 -1.9432604
-0.16523695]
Round4191-------squared error: 3.9132 parameter: [18.39799999  0.69223784 -1.9432759
2 -0.16523435]
Round4192-------squared error: 3.9132 parameter: [18.39799999  0.69222073 -1.9432914
2 -0.16523175]
```

```
Round4193-------squared error: 3.9132 parameter: [18.39799999  0.69220363 -1.9433069
2 -0.16522916]
Round4194-------squared error: 3.9132 parameter: [18.39799999  0.69218655 -1.9433223
9 -0.16522657]
Round4195-------squared error: 3.9132 parameter: [18.39799999  0.69216949 -1.9433378
6 -0.16522398]
Round4196-------squared error: 3.9132 parameter: [18.39799999  0.69215245 -1.9433533
-0.1652214 ]
Round4197-------squared error: 3.9132 parameter: [18.39799999  0.69213542 -1.9433687
4 -0.16521882]
Round4198-------squared error: 3.9132 parameter: [18.39799999  0.6921184  -1.9433841
5 -0.16521624]
Round4199-------squared error: 3.9132 parameter: [18.39799999  0.69210141 -1.9433995
6 -0.16521366]
Round4200-------squared error: 3.9132 parameter: [18.39799999  0.69208443 -1.9434149
4 -0.16521108]
Round4201-------squared error: 3.9132 parameter: [18.39799999  0.69206746 -1.9434303
2 -0.16520851]
Round4202-------squared error: 3.9132 parameter: [18.39799999  0.69205051 -1.9434456
8 -0.16520594]
Round4203-------squared error: 3.9132 parameter: [18.39799999  0.69203358 -1.9434610
2 -0.16520337]
Round4204-------squared error: 3.9132 parameter: [18.39799999  0.69201667 -1.9434763
5 -0.16520081]
Round4205-------squared error: 3.9132 parameter: [18.39799999  0.69199977 -1.9434916
6 -0.16519824]
Round4206-------squared error: 3.9132 parameter: [18.39799999  0.69198289 -1.9435069
6 -0.16519568]
Round4207-------squared error: 3.9132 parameter: [18.39799999  0.69196602 -1.9435222
4 -0.16519312]
Round4208-------squared error: 3.9132 parameter: [18.39799999  0.69194917 -1.9435375
1 -0.16519057]
Round4209-------squared error: 3.9132 parameter: [18.39799999  0.69193234 -1.9435527
7 -0.16518801]
Round4210-------squared error: 3.9132 parameter: [18.39799999  0.69191552 -1.9435680
1 -0.16518546]
Round4211-------squared error: 3.9132 parameter: [18.39799999  0.69189872 -1.9435832
3 -0.16518292]
Round4212-------squared error: 3.9132 parameter: [18.39799999  0.69188193 -1.9435984
5 -0.16518037]
Round4213-------squared error: 3.9132 parameter: [18.39799999  0.69186516 -1.9436136
4 -0.16517783]
Round4214-------squared error: 3.9132 parameter: [18.39799999  0.69184841 -1.9436288
2 -0.16517528]
Round4215-------squared error: 3.9132 parameter: [18.39799999  0.69183167 -1.9436439
9 -0.16517275]
Round4216-------squared error: 3.9132 parameter: [18.39799999  0.69181495 -1.9436591
4 -0.16517021]
Round4217-------squared error: 3.9132 parameter: [18.39799999  0.69179825 -1.9436742
8 -0.16516767]
Round4218-------squared error: 3.9132 parameter: [18.39799999  0.69178156 -1.9436894
-0.16516514]
Round4219-------squared error: 3.9132 parameter: [18.39799999  0.69176489 -1.9437045
1 -0.16516261]
Round4220-------squared error: 3.9132 parameter: [18.39799999  0.69174823 -1.9437196
-0.16516009]
Round4221-------squared error: 3.9132 parameter: [18.39799999  0.69173159 -1.9437346
8 -0.16515756]
Round4222-------squared error: 3.9132 parameter: [18.39799999  0.69171497 -1.9437497
5 -0.16515504]
Round4223-------squared error: 3.9132 parameter: [18.39799999  0.69169836 -1.9437648
-0.16515252]
Round4224-------squared error: 3.9132 parameter: [18.39799999  0.69168177 -1.9437798
3 -0.16515   ]
```

```
Round4225-------squared error: 3.9132 parameter: [18.39799999  0.69166519 -1.9437948
6 -0.16514749]
Round4226-------squared error: 3.9132 parameter: [18.39799999  0.69164863 -1.9438098
6 -0.16514498]
Round4227-------squared error: 3.9132 parameter: [18.39799999  0.69163208 -1.9438248
6 -0.16514247]
Round4228-------squared error: 3.9132 parameter: [18.39799999  0.69161556 -1.9438398
3 -0.16513996]
Round4229-------squared error: 3.9132 parameter: [18.39799999  0.69159904 -1.9438548
-0.16513745]
Round4230-------squared error: 3.9132 parameter: [18.39799999  0.69158255 -1.9438697
5 -0.16513495]
Round4231-------squared error: 3.9132 parameter: [18.39799999  0.69156607 -1.9438846
8 -0.16513245]
Round4232-------squared error: 3.9132 parameter: [18.39799999  0.6915496  -1.9438996
-0.16512995]
Round4233-------squared error: 3.9132 parameter: [18.39799999  0.69153315 -1.9439145
1 -0.16512746]
Round4234-------squared error: 3.9132 parameter: [18.39799999  0.69151672 -1.9439294
-0.16512496]
Round4235-------squared error: 3.9132 parameter: [18.39799999  0.6915003  -1.9439442
7 -0.16512247]
Round4236-------squared error: 3.9132 parameter: [18.39799999  0.6914839  -1.9439591
4 -0.16511998]
Round4237-------squared error: 3.9132 parameter: [18.39799999  0.69146751 -1.9439739
8 -0.1651175 ]
Round4238-------squared error: 3.9132 parameter: [18.39799999  0.69145114 -1.9439888
2 -0.16511501]
Round4239-------squared error: 3.9132 parameter: [18.39799999  0.69143479 -1.9440036
4 -0.16511253]
Round4240-------squared error: 3.9132 parameter: [18.39799999  0.69141845 -1.9440184
4 -0.16511005]
Round4241-------squared error: 3.9132 parameter: [18.39799999  0.69140213 -1.9440332
4 -0.16510757]
Round4242-------squared error: 3.9132 parameter: [18.39799999  0.69138582 -1.9440480
1 -0.1651051 ]
Round4243-------squared error: 3.9132 parameter: [18.39799999  0.69136953 -1.9440627
7 -0.16510263]
Round4244-------squared error: 3.9132 parameter: [18.39799999  0.69135325 -1.9440775
2 -0.16510016]
Round4245-------squared error: 3.9132 parameter: [18.39799999  0.69133699 -1.9440922
6 -0.16509769]
Round4246-------squared error: 3.9132 parameter: [18.39799999  0.69132075 -1.9441069
8 -0.16509522]
Round4247-------squared error: 3.9132 parameter: [18.39799999  0.69130452 -1.9441216
8 -0.16509276]
Round4248-------squared error: 3.9132 parameter: [18.39799999  0.6912883  -1.9441363
7 -0.1650903 ]
Round4249-------squared error: 3.9132 parameter: [18.39799999  0.69127211 -1.9441510
5 -0.16508784]
Round4250-------squared error: 3.9132 parameter: [18.39799999  0.69125592 -1.9441657
2 -0.16508539]
Round4251-------squared error: 3.9132 parameter: [18.39799999  0.69123976 -1.9441803
6 -0.16508293]
Round4252-------squared error: 3.9132 parameter: [18.39799999  0.69122361 -1.944195
-0.16508048]
Round4253-------squared error: 3.9132 parameter: [18.39799999  0.69120747 -1.9442096
2 -0.16507803]
Round4254-------squared error: 3.9132 parameter: [18.39799999  0.69119135 -1.9442242
3 -0.16507559]
Round4255-------squared error: 3.9132 parameter: [18.39799999  0.69117525 -1.9442388
2 -0.16507314]
Round4256-------squared error: 3.9132 parameter: [18.39799999  0.69115916 -1.9442534
-0.1650707 ]
```

```
Round4257-------squared error: 3.9132 parameter: [18.39799999  0.69114308 -1.9442679
6 -0.16506826]
Round4258-------squared error: 3.9132 parameter: [18.39799999  0.69112703 -1.9442825
1 -0.16506582]
Round4259-------squared error: 3.9132 parameter: [18.39799999  0.69111098 -1.9442970
5 -0.16506339]
Round4260-------squared error: 3.9132 parameter: [18.39799999  0.69109496 -1.9443115
7 -0.16506096]
Round4261-------squared error: 3.9132 parameter: [18.39799999  0.69107894 -1.9443260
8 -0.16505852]
Round4262-------squared error: 3.9132 parameter: [18.39799999  0.69106295 -1.9443405
8 -0.1650561 ]
Round4263-------squared error: 3.9132 parameter: [18.39799999  0.69104697 -1.9443550
6 -0.16505367]
Round4264-------squared error: 3.9132 parameter: [18.39799999  0.691031   -1.9443695
2 -0.16505125]
Round4265-------squared error: 3.9132 parameter: [18.39799999  0.69101505 -1.9443839
8 -0.16504883]
Round4266-------squared error: 3.9132 parameter: [18.39799999  0.69099912 -1.9443984
1 -0.16504641]
Round4267-------squared error: 3.9132 parameter: [18.39799999  0.6909832  -1.9444128
4 -0.16504399]
Round4268-------squared error: 3.9132 parameter: [18.39799999  0.69096729 -1.9444272
5 -0.16504158]
Round4269-------squared error: 3.9132 parameter: [18.39799999  0.6909514  -1.9444416
5 -0.16503916]
Round4270-------squared error: 3.9132 parameter: [18.39799999  0.69093553 -1.9444560
3 -0.16503676]
Round4271-------squared error: 3.9132 parameter: [18.39799999  0.69091967 -1.9444704
-0.16503435]
Round4272-------squared error: 3.9132 parameter: [18.39799999  0.69090383 -1.9444847
6 -0.16503194]
Round4273-------squared error: 3.9132 parameter: [18.39799999  0.690888   -1.9444991
-0.16502954]
Round4274-------squared error: 3.9132 parameter: [18.39799999  0.69087219 -1.9445134
2 -0.16502714]
Round4275-------squared error: 3.9132 parameter: [18.39799999  0.69085639 -1.9445277
4 -0.16502474]
Round4276-------squared error: 3.9132 parameter: [18.39799999  0.69084061 -1.9445420
4 -0.16502235]
Round4277-------squared error: 3.9132 parameter: [18.39799999  0.69082484 -1.9445563
2 -0.16501995]
Round4278-------squared error: 3.9132 parameter: [18.39799999  0.69080909 -1.9445706
-0.16501756]
Round4279-------squared error: 3.9132 parameter: [18.39799999  0.69079335 -1.9445848
6 -0.16501517]
Round4280-------squared error: 3.9132 parameter: [18.39799999  0.69077763 -1.9445991
-0.16501278]
Round4281-------squared error: 3.9132 parameter: [18.39799999  0.69076193 -1.9446133
3 -0.1650104 ]
Round4282-------squared error: 3.9132 parameter: [18.39799999  0.69074623 -1.9446275
5 -0.16500802]
Round4283-------squared error: 3.9132 parameter: [18.39799999  0.69073056 -1.9446417
5 -0.16500564]
Round4284-------squared error: 3.9132 parameter: [18.39799999  0.6907149  -1.9446559
4 -0.16500326]
Round4285-------squared error: 3.9132 parameter: [18.39799999  0.69069925 -1.9446701
2 -0.16500088]
Round4286-------squared error: 3.9132 parameter: [18.39799999  0.69068362 -1.9446842
8 -0.16499851]
Round4287-------squared error: 3.9132 parameter: [18.39799999  0.690668   -1.9446984
3 -0.16499614]
Round4288-------squared error: 3.9132 parameter: [18.39799999  0.6906524  -1.9447125
7 -0.16499377]
```

```
Round4289-------squared error: 3.9132 parameter: [18.39799999  0.69063682 -1.9447266
9 -0.1649914 ]
Round4290-------squared error: 3.9132 parameter: [18.39799999  0.69062125 -1.9447408
-0.16498904]
Round4291-------squared error: 3.9132 parameter: [18.39799999  0.69060569 -1.9447548
9 -0.16498668]
Round4292-------squared error: 3.9132 parameter: [18.39799999  0.69059015 -1.9447689
7 -0.16498432]
Round4293-------squared error: 3.9132 parameter: [18.39799999  0.69057462 -1.9447830
4 -0.16498196]
Round4294-------squared error: 3.9132 parameter: [18.39799999  0.69055911 -1.9447971
-0.16497961]
Round4295-------squared error: 3.9132 parameter: [18.39799999  0.69054362 -1.9448111
4 -0.16497725]
Round4296-------squared error: 3.9132 parameter: [18.39799999  0.69052814 -1.9448251
6 -0.1649749 ]
Round4297-------squared error: 3.9132 parameter: [18.39799999  0.69051267 -1.9448391
8 -0.16497255]
Round4298-------squared error: 3.9132 parameter: [18.39799999  0.69049722 -1.9448531
8 -0.16497021]
Round4299-------squared error: 3.9132 parameter: [18.39799999  0.69048178 -1.9448671
6 -0.16496786]
Round4300-------squared error: 3.9132 parameter: [18.39799999  0.69046636 -1.9448811
4 -0.16496552]
Round4301-------squared error: 3.9132 parameter: [18.39799999  0.69045095 -1.9448951
-0.16496318]
Round4302-------squared error: 3.9132 parameter: [18.39799999  0.69043556 -1.9449090
4 -0.16496084]
Round4303-------squared error: 3.9132 parameter: [18.39799999  0.69042018 -1.9449229
7 -0.16495851]
Round4304-------squared error: 3.9132 parameter: [18.39799999  0.69040482 -1.9449368
9 -0.16495617]
Round4305-------squared error: 3.9132 parameter: [18.39799999  0.69038947 -1.9449508
-0.16495384]
Round4306-------squared error: 3.9132 parameter: [18.39799999  0.69037414 -1.9449646
9 -0.16495152]
Round4307-------squared error: 3.9132 parameter: [18.39799999  0.69035882 -1.9449785
7 -0.16494919]
Round4308-------squared error: 3.9132 parameter: [18.39799999  0.69034352 -1.9449924
4 -0.16494686]
Round4309-------squared error: 3.9132 parameter: [18.39799999  0.69032823 -1.9450062
9 -0.16494454]
Round4310-------squared error: 3.9132 parameter: [18.39799999  0.69031296 -1.9450201
3 -0.16494222]
Round4311-------squared error: 3.9132 parameter: [18.39799999  0.6902977  -1.9450339
5 -0.16493991]
Round4312-------squared error: 3.9132 parameter: [18.39799999  0.69028245 -1.9450477
6 -0.16493759]
Round4313-------squared error: 3.9132 parameter: [18.39799999  0.69026722 -1.9450615
6 -0.16493528]
Round4314-------squared error: 3.9132 parameter: [18.39799999  0.69025201 -1.9450753
5 -0.16493297]
Round4315-------squared error: 3.9132 parameter: [18.39799999  0.69023681 -1.9450891
2 -0.16493066]
Round4316-------squared error: 3.9132 parameter: [18.39799999  0.69022162 -1.9451028
8 -0.16492835]
Round4317-------squared error: 3.9132 parameter: [18.39799999  0.69020645 -1.9451166
3 -0.16492605]
Round4318-------squared error: 3.9132 parameter: [18.39799999  0.69019129 -1.9451303
6 -0.16492374]
Round4319-------squared error: 3.9132 parameter: [18.39799999  0.69017615 -1.9451440
8 -0.16492144]
Round4320-------squared error: 3.9132 parameter: [18.39799999  0.69016102 -1.9451577
8 -0.16491915]
```

```
Round4321-------squared error: 3.9132 parameter: [18.39799999  0.69014591 -1.9451714
8 -0.16491685]
Round4322-------squared error: 3.9132 parameter: [18.39799999  0.69013081 -1.9451851
5 -0.16491456]
Round4323-------squared error: 3.9132 parameter: [18.39799999  0.69011573 -1.9451988
2 -0.16491227]
Round4324-------squared error: 3.9132 parameter: [18.39799999  0.69010066 -1.9452124
7 -0.16490998]
Round4325-------squared error: 3.9132 parameter: [18.39799999  0.69008561 -1.9452261
1 -0.16490769]
Round4326-------squared error: 3.9132 parameter: [18.39799999  0.69007057 -1.9452397
4 -0.16490541]
Round4327-------squared error: 3.9132 parameter: [18.39799999  0.69005554 -1.9452533
6 -0.16490312]
Round4328-------squared error: 3.9132 parameter: [18.39799999  0.69004053 -1.9452669
6 -0.16490084]
Round4329-------squared error: 3.9132 parameter: [18.39799999  0.69002553 -1.9452805
4 -0.16489857]
Round4330-------squared error: 3.9132 parameter: [18.39799999  0.69001055 -1.9452941
2 -0.16489629]
Round4331-------squared error: 3.9132 parameter: [18.39799999  0.68999558 -1.9453076
8 -0.16489402]
Round4332-------squared error: 3.9132 parameter: [18.39799999  0.68998063 -1.9453212
3 -0.16489174]
Round4333-------squared error: 3.9132 parameter: [18.39799999  0.68996569 -1.9453347
6 -0.16488947]
Round4334-------squared error: 3.9132 parameter: [18.39799999  0.68995076 -1.9453482
8 -0.16488721]
Round4335-------squared error: 3.9132 parameter: [18.39799999  0.68993585 -1.9453617
9 -0.16488494]
Round4336-------squared error: 3.9132 parameter: [18.39799999  0.68992096 -1.9453752
9 -0.16488268]
Round4337-------squared error: 3.9132 parameter: [18.39799999  0.68990607 -1.9453887
7 -0.16488042]
Round4338-------squared error: 3.9131 parameter: [18.39799999  0.68989121 -1.9454022
4 -0.16487816]
Round4339-------squared error: 3.9131 parameter: [18.39799999  0.68987635 -1.9454157
-0.1648759 ]
Round4340-------squared error: 3.9131 parameter: [18.39799999  0.68986151 -1.9454291
4 -0.16487365]
Round4341-------squared error: 3.9131 parameter: [18.39799999  0.68984669 -1.9454425
8 -0.1648714 ]
Round4342-------squared error: 3.9131 parameter: [18.39799999  0.68983188 -1.9454559
9 -0.16486915]
Round4343-------squared error: 3.9131 parameter: [18.39799999  0.68981708 -1.9454694
-0.1648669 ]
Round4344-------squared error: 3.9131 parameter: [18.39799999  0.6898023  -1.9454827
9 -0.16486465]
Round4345-------squared error: 3.9131 parameter: [18.39799999  0.68978753 -1.9454961
7 -0.16486241]
Round4346-------squared error: 3.9131 parameter: [18.39799999  0.68977278 -1.9455095
4 -0.16486017]
Round4347-------squared error: 3.9131 parameter: [18.39799999  0.68975804 -1.9455228
9 -0.16485793]
Round4348-------squared error: 3.9131 parameter: [18.39799999  0.68974332 -1.9455362
3 -0.16485569]
Round4349-------squared error: 3.9131 parameter: [18.39799999  0.6897286  -1.9455495
6 -0.16485345]
Round4350-------squared error: 3.9131 parameter: [18.39799999  0.68971391 -1.9455628
7 -0.16485122]
Round4351-------squared error: 3.9131 parameter: [18.39799999  0.68969922 -1.9455761
8 -0.16484899]
Round4352-------squared error: 3.9131 parameter: [18.39799999  0.68968456 -1.9455894
7 -0.16484676]
```

```
Round4353-------squared error: 3.9131 parameter: [18.39799999  0.6896699  -1.9456027
4 -0.16484454]
Round4354-------squared error: 3.9131 parameter: [18.39799999  0.68965526 -1.9456160
1 -0.16484231]
Round4355-------squared error: 3.9131 parameter: [18.39799999  0.68964064 -1.9456292
6 -0.16484009]
Round4356-------squared error: 3.9131 parameter: [18.39799999  0.68962602 -1.9456425
-0.16483787]
Round4357-------squared error: 3.9131 parameter: [18.39799999  0.68961143 -1.9456557
2 -0.16483565]
Round4358-------squared error: 3.9131 parameter: [18.39799999  0.68959684 -1.9456689
3 -0.16483343]
Round4359-------squared error: 3.9131 parameter: [18.39799999  0.68958227 -1.9456821
3 -0.16483122]
Round4360-------squared error: 3.9131 parameter: [18.39799999  0.68956772 -1.9456953
2 -0.16482901]
Round4361-------squared error: 3.9131 parameter: [18.39799999  0.68955317 -1.9457085
-0.1648268 ]
Round4362-------squared error: 3.9131 parameter: [18.39799999  0.68953865 -1.9457216
6 -0.16482459]
Round4363-------squared error: 3.9131 parameter: [18.39799999  0.68952413 -1.9457348
1 -0.16482238]
Round4364-------squared error: 3.9131 parameter: [18.39799999  0.68950963 -1.9457479
4 -0.16482018]
Round4365-------squared error: 3.9131 parameter: [18.39799999  0.68949515 -1.9457610
7 -0.16481798]
Round4366-------squared error: 3.9131 parameter: [18.39799999  0.68948067 -1.9457741
8 -0.16481578]
Round4367-------squared error: 3.9131 parameter: [18.39799999  0.68946622 -1.9457872
8 -0.16481358]
Round4368-------squared error: 3.9131 parameter: [18.39799999  0.68945177 -1.9458003
6 -0.16481139]
Round4369-------squared error: 3.9131 parameter: [18.39799999  0.68943734 -1.9458134
4 -0.1648092 ]
Round4370-------squared error: 3.9131 parameter: [18.39799999  0.68942292 -1.9458265
-0.164807  ]
Round4371-------squared error: 3.9131 parameter: [18.39799999  0.68940852 -1.9458395
5 -0.16480482]
Round4372-------squared error: 3.9131 parameter: [18.39799999  0.68939413 -1.9458525
8 -0.16480263]
Round4373-------squared error: 3.9131 parameter: [18.39799999  0.68937976 -1.9458656
-0.16480044]
Round4374-------squared error: 3.9131 parameter: [18.39799999  0.6893654  -1.9458786
1 -0.16479826]
Round4375-------squared error: 3.9131 parameter: [18.39799999  0.68935105 -1.9458916
1 -0.16479608]
Round4376-------squared error: 3.9131 parameter: [18.39799999  0.68933672 -1.9459046
-0.1647939 ]
Round4377-------squared error: 3.9131 parameter: [18.39799999  0.6893224  -1.9459175
7 -0.16479173]
Round4378-------squared error: 3.9131 parameter: [18.39799999  0.68930809 -1.9459305
3 -0.16478955]
Round4379-------squared error: 3.9131 parameter: [18.39799999  0.6892938  -1.9459434
8 -0.16478738]
Round4380-------squared error: 3.9131 parameter: [18.39799999  0.68927952 -1.9459564
1 -0.16478521]
Round4381-------squared error: 3.9131 parameter: [18.39799999  0.68926526 -1.9459693
4 -0.16478304]
Round4382-------squared error: 3.9131 parameter: [18.39799999  0.68925101 -1.9459822
5 -0.16478088]
Round4383-------squared error: 3.9131 parameter: [18.39799999  0.68923677 -1.9459951
5 -0.16477871]
Round4384-------squared error: 3.9131 parameter: [18.39799999  0.68922255 -1.9460080
3 -0.16477655]
```

```
Round4385-------squared error: 3.9131 parameter: [18.39799999  0.68920834 -1.9460209
-0.16477439]
Round4386-------squared error: 3.9131 parameter: [18.39799999  0.68919414 -1.9460337
7 -0.16477223]
Round4387-------squared error: 3.9131 parameter: [18.398       0.68917996 -1.9460466
1 -0.16477008]
Round4388-------squared error: 3.9131 parameter: [18.398       0.68916579 -1.9460594
5 -0.16476792]
Round4389-------squared error: 3.9131 parameter: [18.398       0.68915163 -1.9460722
7 -0.16476577]
Round4390-------squared error: 3.9131 parameter: [18.398       0.68913749 -1.9460850
8 -0.16476362]
Round4391-------squared error: 3.9131 parameter: [18.398       0.68912336 -1.9460978
8 -0.16476147]
Round4392-------squared error: 3.9131 parameter: [18.398       0.68910925 -1.9461106
7 -0.16475933]
Round4393-------squared error: 3.9131 parameter: [18.398       0.68909515 -1.9461234
4 -0.16475719]
Round4394-------squared error: 3.9131 parameter: [18.398       0.68908106 -1.9461362
1 -0.16475504]
Round4395-------squared error: 3.9131 parameter: [18.398       0.68906699 -1.9461489
6 -0.1647529 ]
Round4396-------squared error: 3.9131 parameter: [18.398       0.68905293 -1.9461616
9 -0.16475077]
Round4397-------squared error: 3.9131 parameter: [18.398       0.68903888 -1.9461744
2 -0.16474863]
Round4398-------squared error: 3.9131 parameter: [18.398       0.68902485 -1.9461871
3 -0.1647465 ]
Round4399-------squared error: 3.9131 parameter: [18.398       0.68901083 -1.9461998
3 -0.16474437]
Round4400-------squared error: 3.9131 parameter: [18.398       0.68899682 -1.9462125
2 -0.16474224]
Round4401-------squared error: 3.9131 parameter: [18.398       0.68898283 -1.9462252
-0.16474011]
Round4402-------squared error: 3.9131 parameter: [18.398       0.68896885 -1.9462378
6 -0.16473799]
Round4403-------squared error: 3.9131 parameter: [18.398       0.68895489 -1.9462505
1 -0.16473586]
Round4404-------squared error: 3.9131 parameter: [18.398       0.68894093 -1.9462631
5 -0.16473374]
Round4405-------squared error: 3.9131 parameter: [18.398       0.688927   -1.9462757
8 -0.16473162]
Round4406-------squared error: 3.9131 parameter: [18.398       0.68891307 -1.9462883
9 -0.16472951]
Round4407-------squared error: 3.9131 parameter: [18.398       0.68889916 -1.946301
-0.16472739]
Round4408-------squared error: 3.9131 parameter: [18.398       0.68888526 -1.9463135
9 -0.16472528]
Round4409-------squared error: 3.9131 parameter: [18.398       0.68887138 -1.9463261
7 -0.16472317]
Round4410-------squared error: 3.9131 parameter: [18.398       0.6888575  -1.9463387
3 -0.16472106]
Round4411-------squared error: 3.9131 parameter: [18.398       0.68884365 -1.9463512
9 -0.16471895]
Round4412-------squared error: 3.9131 parameter: [18.398       0.6888298  -1.9463638
3 -0.16471685]
Round4413-------squared error: 3.9131 parameter: [18.398       0.68881597 -1.9463763
6 -0.16471474]
Round4414-------squared error: 3.9131 parameter: [18.398       0.68880215 -1.9463888
8 -0.16471264]
Round4415-------squared error: 3.9131 parameter: [18.398       0.68878835 -1.9464013
8 -0.16471054]
Round4416-------squared error: 3.9131 parameter: [18.398       0.68877455 -1.9464138
8 -0.16470845]
```

```
Round4417-------squared error: 3.9131 parameter: [18.398       0.68876077 -1.9464263
6 -0.16470635]
Round4418-------squared error: 3.9131 parameter: [18.398       0.68874701 -1.9464388
3 -0.16470426]
Round4419-------squared error: 3.9131 parameter: [18.398       0.68873326 -1.9464512
9 -0.16470217]
Round4420-------squared error: 3.9131 parameter: [18.398       0.68871952 -1.9464637
3 -0.16470008]
Round4421-------squared error: 3.9131 parameter: [18.398       0.68870579 -1.9464761
7 -0.16469799]
Round4422-------squared error: 3.9131 parameter: [18.398       0.68869208 -1.9464885
9 -0.16469591]
Round4423-------squared error: 3.9131 parameter: [18.398       0.68867838 -1.946501
-0.16469382]
Round4424-------squared error: 3.9131 parameter: [18.398       0.6886647  -1.9465134
-0.16469174]
Round4425-------squared error: 3.9131 parameter: [18.398       0.68865102 -1.9465257
8 -0.16468966]
Round4426-------squared error: 3.9131 parameter: [18.398       0.68863736 -1.9465381
6 -0.16468759]
Round4427-------squared error: 3.9131 parameter: [18.398       0.68862372 -1.9465505
2 -0.16468551]
Round4428-------squared error: 3.9131 parameter: [18.398       0.68861008 -1.9465628
7 -0.16468344]
Round4429-------squared error: 3.9131 parameter: [18.398       0.68859646 -1.9465752
1 -0.16468137]
Round4430-------squared error: 3.9131 parameter: [18.398       0.68858286 -1.9465875
4 -0.1646793 ]
Round4431-------squared error: 3.9131 parameter: [18.398       0.68856926 -1.9465998
5 -0.16467723]
Round4432-------squared error: 3.9131 parameter: [18.398       0.68855568 -1.9466121
5 -0.16467517]
Round4433-------squared error: 3.9131 parameter: [18.398       0.68854211 -1.9466244
4 -0.1646731 ]
Round4434-------squared error: 3.9131 parameter: [18.398       0.68852856 -1.9466367
2 -0.16467104]
Round4435-------squared error: 3.9131 parameter: [18.398       0.68851502 -1.9466489
9 -0.16466898]
Round4436-------squared error: 3.9131 parameter: [18.398       0.68850149 -1.9466612
5 -0.16466693]
Round4437-------squared error: 3.9131 parameter: [18.398       0.68848797 -1.9466734
9 -0.16466487]
Round4438-------squared error: 3.9131 parameter: [18.398       0.68847447 -1.9466857
2 -0.16466282]
Round4439-------squared error: 3.9131 parameter: [18.398       0.68846098 -1.9466979
4 -0.16466077]
Round4440-------squared error: 3.9131 parameter: [18.398       0.6884475  -1.9467101
5 -0.16465872]
Round4441-------squared error: 3.9131 parameter: [18.398       0.68843404 -1.9467223
5 -0.16465667]
Round4442-------squared error: 3.9131 parameter: [18.398       0.68842059 -1.9467345
3 -0.16465462]
Round4443-------squared error: 3.9131 parameter: [18.398       0.68840715 -1.9467467
-0.16465258]
Round4444-------squared error: 3.9131 parameter: [18.398       0.68839373 -1.9467588
6 -0.16465054]
Round4445-------squared error: 3.9131 parameter: [18.398       0.68838031 -1.9467710
1 -0.1646485 ]
Round4446-------squared error: 3.9131 parameter: [18.398       0.68836692 -1.9467831
5 -0.16464646]
Round4447-------squared error: 3.9131 parameter: [18.398       0.68835353 -1.9467952
8 -0.16464442]
Round4448-------squared error: 3.9131 parameter: [18.398       0.68834016 -1.9468073
9 -0.16464239]
```

```
Round4449-------squared error: 3.9131 parameter: [18.398       0.6883268  -1.9468195
-0.16464036]
Round4450-------squared error: 3.9131 parameter: [18.398       0.68831345 -1.9468315
9 -0.16463833]
Round4451-------squared error: 3.9131 parameter: [18.398       0.68830011 -1.9468436
7 -0.1646363 ]
Round4452-------squared error: 3.9131 parameter: [18.398       0.68828679 -1.9468557
3 -0.16463427]
Round4453-------squared error: 3.9131 parameter: [18.398       0.68827348 -1.9468677
9 -0.16463225]
Round4454-------squared error: 3.9131 parameter: [18.398       0.68826019 -1.9468798
3 -0.16463023]
Round4455-------squared error: 3.9131 parameter: [18.398       0.6882469  -1.9468918
7 -0.16462821]
Round4456-------squared error: 3.9131 parameter: [18.398       0.68823363 -1.9469038
9 -0.16462619]
Round4457-------squared error: 3.9131 parameter: [18.398       0.68822037 -1.9469159
-0.16462417]
Round4458-------squared error: 3.9131 parameter: [18.398       0.68820713 -1.9469279
-0.16462216]
Round4459-------squared error: 3.9131 parameter: [18.398       0.6881939  -1.9469398
8 -0.16462015]
Round4460-------squared error: 3.9131 parameter: [18.398       0.68818068 -1.9469518
6 -0.16461813]
Round4461-------squared error: 3.9131 parameter: [18.398       0.68816747 -1.9469638
2 -0.16461613]
Round4462-------squared error: 3.9131 parameter: [18.398       0.68815428 -1.9469757
7 -0.16461412]
Round4463-------squared error: 3.9131 parameter: [18.398       0.68814109 -1.9469877
1 -0.16461211]
Round4464-------squared error: 3.9131 parameter: [18.398       0.68812793 -1.9469996
4 -0.16461011]
Round4465-------squared error: 3.9131 parameter: [18.398       0.68811477 -1.9470115
6 -0.16460811]
Round4466-------squared error: 3.9131 parameter: [18.398       0.68810163 -1.9470234
7 -0.16460611]
Round4467-------squared error: 3.9131 parameter: [18.398       0.6880885  -1.9470353
6 -0.16460411]
Round4468-------squared error: 3.9131 parameter: [18.398       0.68807538 -1.9470472
4 -0.16460212]
Round4469-------squared error: 3.9131 parameter: [18.398       0.68806227 -1.9470591
2 -0.16460012]
Round4470-------squared error: 3.9131 parameter: [18.398       0.68804918 -1.9470709
8 -0.16459813]
Round4471-------squared error: 3.9131 parameter: [18.398       0.6880361  -1.9470828
2 -0.16459614]
Round4472-------squared error: 3.9131 parameter: [18.398       0.68802303 -1.9470946
6 -0.16459416]
Round4473-------squared error: 3.9131 parameter: [18.398       0.68800998 -1.9471064
9 -0.16459217]
Round4474-------squared error: 3.9131 parameter: [18.398       0.68799693 -1.9471183
-0.16459019]
Round4475-------squared error: 3.9131 parameter: [18.398       0.6879839  -1.9471301
1 -0.1645882 ]
Round4476-------squared error: 3.9131 parameter: [18.398       0.68797089 -1.9471419
-0.16458622]
Round4477-------squared error: 3.9131 parameter: [18.398       0.68795788 -1.9471536
8 -0.16458424]
Round4478-------squared error: 3.9131 parameter: [18.398       0.68794489 -1.9471654
5 -0.16458227]
Round4479-------squared error: 3.9131 parameter: [18.398       0.68793191 -1.9471772
-0.16458029]
Round4480-------squared error: 3.9131 parameter: [18.398       0.68791894 -1.9471889
5 -0.16457832]
```

```
Round4481-------squared error: 3.9131 parameter: [18.398       0.68790599 -1.9472006
9 -0.16457635]
Round4482-------squared error: 3.9131 parameter: [18.398       0.68789304 -1.9472124
1 -0.16457438]
Round4483-------squared error: 3.9131 parameter: [18.398       0.68788011 -1.9472241
2 -0.16457241]
Round4484-------squared error: 3.9131 parameter: [18.398       0.6878672  -1.9472358
2 -0.16457045]
Round4485-------squared error: 3.9131 parameter: [18.398       0.68785429 -1.9472475
1 -0.16456849]
Round4486-------squared error: 3.9131 parameter: [18.398       0.6878414  -1.9472591
9 -0.16456652]
Round4487-------squared error: 3.9131 parameter: [18.398       0.68782852 -1.9472708
6 -0.16456456]
Round4488-------squared error: 3.9131 parameter: [18.398       0.68781565 -1.9472825
1 -0.16456261]
Round4489-------squared error: 3.9131 parameter: [18.398       0.68780279 -1.9472941
6 -0.16456065]
Round4490-------squared error: 3.9131 parameter: [18.398       0.68778995 -1.9473057
9 -0.1645587 ]
Round4491-------squared error: 3.9131 parameter: [18.398       0.68777712 -1.9473174
2 -0.16455675]
Round4492-------squared error: 3.9131 parameter: [18.398       0.6877643  -1.9473290
3 -0.1645548 ]
Round4493-------squared error: 3.9131 parameter: [18.398       0.6877515  -1.9473406
3 -0.16455285]
Round4494-------squared error: 3.9131 parameter: [18.398       0.6877387  -1.9473522
2 -0.1645509 ]
Round4495-------squared error: 3.9131 parameter: [18.398       0.68772592 -1.9473637
9 -0.16454896]
Round4496-------squared error: 3.9131 parameter: [18.398       0.68771315 -1.9473753
6 -0.16454701]
Round4497-------squared error: 3.9131 parameter: [18.398       0.68770039 -1.9473869
2 -0.16454507]
Round4498-------squared error: 3.9131 parameter: [18.398       0.68768765 -1.9473984
6 -0.16454313]
Round4499-------squared error: 3.9131 parameter: [18.398       0.68767492 -1.9474099
9 -0.1645412 ]
Round4500-------squared error: 3.9131 parameter: [18.398       0.6876622  -1.9474215
1 -0.16453926]
Round4501-------squared error: 3.9131 parameter: [18.398       0.68764949 -1.9474330
3 -0.16453733]
Round4502-------squared error: 3.9131 parameter: [18.398       0.68763679 -1.9474445
3 -0.1645354 ]
Round4503-------squared error: 3.9131 parameter: [18.398       0.68762411 -1.9474560
1 -0.16453347]
Round4504-------squared error: 3.9131 parameter: [18.398       0.68761144 -1.9474674
9 -0.16453154]
Round4505-------squared error: 3.9131 parameter: [18.398       0.68759878 -1.9474789
6 -0.16452961]
Round4506-------squared error: 3.9131 parameter: [18.398       0.68758613 -1.9474904
1 -0.16452769]
Round4507-------squared error: 3.9131 parameter: [18.398       0.6875735  -1.9475018
6 -0.16452576]
Round4508-------squared error: 3.9131 parameter: [18.398       0.68756088 -1.9475132
9 -0.16452384]
Round4509-------squared error: 3.9131 parameter: [18.398       0.68754827 -1.9475247
1 -0.16452193]
Round4510-------squared error: 3.9131 parameter: [18.398       0.68753567 -1.9475361
3 -0.16452001]
Round4511-------squared error: 3.9131 parameter: [18.398       0.68752308 -1.9475475
3 -0.16451809]
Round4512-------squared error: 3.9131 parameter: [18.398       0.68751051 -1.9475589
2 -0.16451618]
```

```
Round4513-------squared error: 3.9131 parameter: [18.398       0.68749795 -1.9475702
9 -0.16451427]
Round4514-------squared error: 3.9131 parameter: [18.398       0.6874854  -1.9475816
6 -0.16451236]
Round4515-------squared error: 3.9131 parameter: [18.398       0.68747286 -1.9475930
2 -0.16451045]
Round4516-------squared error: 3.9131 parameter: [18.398       0.68746033 -1.9476043
6 -0.16450854]
Round4517-------squared error: 3.9131 parameter: [18.398       0.68744782 -1.9476157
-0.16450664]
Round4518-------squared error: 3.9131 parameter: [18.398       0.68743532 -1.9476270
2 -0.16450474]
Round4519-------squared error: 3.9131 parameter: [18.398       0.68742283 -1.9476383
4 -0.16450284]
Round4520-------squared error: 3.9131 parameter: [18.398       0.68741035 -1.9476496
4 -0.16450094]
Round4521-------squared error: 3.9131 parameter: [18.398       0.68739789 -1.9476609
3 -0.16449904]
Round4522-------squared error: 3.9131 parameter: [18.398       0.68738543 -1.9476722
1 -0.16449715]
Round4523-------squared error: 3.9131 parameter: [18.398       0.68737299 -1.9476834
8 -0.16449525]
Round4524-------squared error: 3.9131 parameter: [18.398       0.68736056 -1.9476947
4 -0.16449336]
Round4525-------squared error: 3.9131 parameter: [18.398       0.68734814 -1.9477059
8 -0.16449147]
Round4526-------squared error: 3.9131 parameter: [18.398       0.68733574 -1.9477172
2 -0.16448958]
Round4527-------squared error: 3.9131 parameter: [18.398       0.68732335 -1.9477284
5 -0.1644877 ]
Round4528-------squared error: 3.9131 parameter: [18.398       0.68731096 -1.9477396
6 -0.16448581]
Round4529-------squared error: 3.9131 parameter: [18.398       0.68729859 -1.9477508
7 -0.16448393]
Round4530-------squared error: 3.9131 parameter: [18.398       0.68728624 -1.9477620
6 -0.16448205]
Round4531-------squared error: 3.9131 parameter: [18.398       0.68727389 -1.9477732
4 -0.16448017]
Round4532-------squared error: 3.9131 parameter: [18.398       0.68726156 -1.9477844
1 -0.1644783 ]
Round4533-------squared error: 3.9131 parameter: [18.398       0.68724923 -1.9477955
8 -0.16447642]
Round4534-------squared error: 3.9131 parameter: [18.398       0.68723692 -1.9478067
3 -0.16447455]
Round4535-------squared error: 3.9131 parameter: [18.398       0.68722463 -1.9478178
7 -0.16447267]
Round4536-------squared error: 3.9131 parameter: [18.398       0.68721234 -1.9478289
9 -0.1644708 ]
Round4537-------squared error: 3.9131 parameter: [18.398       0.68720006 -1.9478401
1 -0.16446894]
Round4538-------squared error: 3.9131 parameter: [18.398       0.6871878  -1.9478512
2 -0.16446707]
Round4539-------squared error: 3.9131 parameter: [18.398       0.68717555 -1.9478623
2 -0.16446521]
Round4540-------squared error: 3.9131 parameter: [18.398       0.68716331 -1.9478734
-0.16446334]
Round4541-------squared error: 3.9131 parameter: [18.398       0.68715108 -1.9478844
8 -0.16446148]
Round4542-------squared error: 3.9131 parameter: [18.398       0.68713887 -1.9478955
4 -0.16445962]
Round4543-------squared error: 3.9131 parameter: [18.398       0.68712666 -1.9479066
-0.16445777]
Round4544-------squared error: 3.9131 parameter: [18.398       0.68711447 -1.9479176
4 -0.16445591]
```

```
Round4545-------squared error: 3.9131 parameter: [18.398       0.68710229 -1.9479286
7 -0.16445406]
Round4546-------squared error: 3.9131 parameter: [18.398       0.68709012 -1.9479397
-0.1644522 ]
Round4547-------squared error: 3.9131 parameter: [18.398       0.68707796 -1.9479507
1 -0.16445035]
Round4548-------squared error: 3.9131 parameter: [18.398       0.68706582 -1.9479617
1 -0.1644485 ]
Round4549-------squared error: 3.9131 parameter: [18.398       0.68705369 -1.9479727
-0.16444666]
Round4550-------squared error: 3.9131 parameter: [18.398       0.68704156 -1.9479836
8 -0.16444481]
Round4551-------squared error: 3.9131 parameter: [18.398       0.68702945 -1.9479946
5 -0.16444297]
Round4552-------squared error: 3.9131 parameter: [18.398       0.68701735 -1.9480056
1 -0.16444113]
Round4553-------squared error: 3.9131 parameter: [18.398       0.68700527 -1.9480165
5 -0.16443929]
Round4554-------squared error: 3.9131 parameter: [18.398       0.68699319 -1.9480274
9 -0.16443745]
Round4555-------squared error: 3.9131 parameter: [18.398       0.68698113 -1.9480384
2 -0.16443561]
Round4556-------squared error: 3.9131 parameter: [18.398       0.68696908 -1.9480493
4 -0.16443378]
Round4557-------squared error: 3.9131 parameter: [18.398       0.68695703 -1.9480602
4 -0.16443195]
Round4558-------squared error: 3.9131 parameter: [18.398       0.68694501 -1.9480711
4 -0.16443012]
Round4559-------squared error: 3.9131 parameter: [18.398       0.68693299 -1.9480820
2 -0.16442829]
Round4560-------squared error: 3.9131 parameter: [18.398       0.68692098 -1.9480929
-0.16442646]
Round4561-------squared error: 3.9131 parameter: [18.398       0.68690899 -1.9481037
6 -0.16442463]
Round4562-------squared error: 3.9131 parameter: [18.398       0.68689701 -1.9481146
1 -0.16442281]
Round4563-------squared error: 3.9131 parameter: [18.398       0.68688503 -1.9481254
6 -0.16442099]
Round4564-------squared error: 3.9131 parameter: [18.398       0.68687307 -1.9481362
9 -0.16441917]
Round4565-------squared error: 3.9131 parameter: [18.398       0.68686113 -1.9481471
1 -0.16441735]
Round4566-------squared error: 3.9131 parameter: [18.398       0.68684919 -1.9481579
2 -0.16441553]
Round4567-------squared error: 3.9131 parameter: [18.398       0.68683726 -1.9481687
2 -0.16441372]
Round4568-------squared error: 3.9131 parameter: [18.398       0.68682535 -1.9481795
2 -0.1644119 ]
Round4569-------squared error: 3.9131 parameter: [18.398       0.68681345 -1.9481903
-0.16441009]
Round4570-------squared error: 3.9131 parameter: [18.398       0.68680156 -1.9482010
7 -0.16440828]
Round4571-------squared error: 3.9131 parameter: [18.398       0.68678968 -1.9482118
3 -0.16440647]
Round4572-------squared error: 3.9131 parameter: [18.398       0.68677781 -1.9482225
7 -0.16440466]
Round4573-------squared error: 3.9131 parameter: [18.398       0.68676595 -1.9482333
1 -0.16440286]
Round4574-------squared error: 3.9131 parameter: [18.398       0.68675411 -1.9482440
4 -0.16440106]
Round4575-------squared error: 3.9131 parameter: [18.398       0.68674227 -1.9482547
6 -0.16439925]
Round4576-------squared error: 3.9131 parameter: [18.398       0.68673045 -1.9482654
7 -0.16439746]
```

```
Round4577-------squared error: 3.9131 parameter: [18.398       0.68671864 -1.9482761
7 -0.16439566]
Round4578-------squared error: 3.9131 parameter: [18.398       0.68670684 -1.9482868
5 -0.16439386]
Round4579-------squared error: 3.9131 parameter: [18.398       0.68669505 -1.9482975
3 -0.16439207]
Round4580-------squared error: 3.9131 parameter: [18.398       0.68668328 -1.9483082
-0.16439027]
Round4581-------squared error: 3.9131 parameter: [18.398       0.68667151 -1.9483188
5 -0.16438848]
Round4582-------squared error: 3.9131 parameter: [18.398       0.68665976 -1.9483295
-0.16438669]
Round4583-------squared error: 3.9131 parameter: [18.398       0.68664801 -1.9483401
4 -0.1643849 ]
Round4584-------squared error: 3.9131 parameter: [18.398       0.68663628 -1.9483507
6 -0.16438312]
Round4585-------squared error: 3.9131 parameter: [18.398       0.68662456 -1.9483613
8 -0.16438133]
Round4586-------squared error: 3.9131 parameter: [18.398       0.68661285 -1.9483719
8 -0.16437955]
Round4587-------squared error: 3.9131 parameter: [18.398       0.68660116 -1.9483825
8 -0.16437777]
Round4588-------squared error: 3.9131 parameter: [18.398       0.68658947 -1.9483931
6 -0.16437599]
Round4589-------squared error: 3.9131 parameter: [18.398       0.68657779 -1.9484037
4 -0.16437421]
Round4590-------squared error: 3.9131 parameter: [18.398       0.68656613 -1.9484143
-0.16437244]
Round4591-------squared error: 3.9131 parameter: [18.398       0.68655448 -1.9484248
6 -0.16437066]
Round4592-------squared error: 3.9131 parameter: [18.398       0.68654284 -1.9484354
-0.16436889]
Round4593-------squared error: 3.9131 parameter: [18.398       0.68653121 -1.9484459
3 -0.16436712]
Round4594-------squared error: 3.9131 parameter: [18.398       0.68651959 -1.9484564
6 -0.16436535]
Round4595-------squared error: 3.9131 parameter: [18.398       0.68650798 -1.9484669
7 -0.16436358]
Round4596-------squared error: 3.9131 parameter: [18.398       0.68649638 -1.9484774
7 -0.16436182]
Round4597-------squared error: 3.9131 parameter: [18.398       0.6864848  -1.9484879
7 -0.16436006]
Round4598-------squared error: 3.9131 parameter: [18.398       0.68647322 -1.9484984
5 -0.16435829]
Round4599-------squared error: 3.9131 parameter: [18.398       0.68646166 -1.9485089
2 -0.16435653]
Round4600-------squared error: 3.9131 parameter: [18.398       0.68645011 -1.9485193
9 -0.16435477]
Round4601-------squared error: 3.9131 parameter: [18.398       0.68643857 -1.9485298
4 -0.16435302]
Round4602-------squared error: 3.9131 parameter: [18.398       0.68642704 -1.9485402
8 -0.16435126]
Round4603-------squared error: 3.9131 parameter: [18.398       0.68641552 -1.9485507
2 -0.16434951]
Round4604-------squared error: 3.9131 parameter: [18.398       0.68640401 -1.9485611
4 -0.16434775]
Round4605-------squared error: 3.9131 parameter: [18.398       0.68639251 -1.9485715
5 -0.164346  ]
Round4606-------squared error: 3.9131 parameter: [18.398       0.68638103 -1.9485819
5 -0.16434426]
Round4607-------squared error: 3.9131 parameter: [18.398       0.68636955 -1.9485923
5 -0.16434251]
Round4608-------squared error: 3.9131 parameter: [18.398       0.68635809 -1.9486027
3 -0.16434076]
```

```
Round4609-------squared error: 3.9131 parameter: [18.398       0.68634664 -1.9486131
-0.16433902]
Round4610-------squared error: 3.9131 parameter: [18.398       0.68633519 -1.9486234
7 -0.16433728]
Round4611-------squared error: 3.9131 parameter: [18.398       0.68632376 -1.9486338
2 -0.16433554]
Round4612-------squared error: 3.9131 parameter: [18.398       0.68631234 -1.9486441
6 -0.1643338 ]
Round4613-------squared error: 3.9131 parameter: [18.398       0.68630094 -1.9486544
9 -0.16433206]
Round4614-------squared error: 3.9131 parameter: [18.398       0.68628954 -1.9486648
2 -0.16433032]
Round4615-------squared error: 3.9131 parameter: [18.398       0.68627815 -1.9486751
3 -0.16432859]
Round4616-------squared error: 3.9131 parameter: [18.398       0.68626678 -1.9486854
3 -0.16432686]
Round4617-------squared error: 3.9131 parameter: [18.398       0.68625541 -1.9486957
2 -0.16432513]
Round4618-------squared error: 3.9131 parameter: [18.398       0.68624406 -1.9487060
1 -0.1643234 ]
Round4619-------squared error: 3.9131 parameter: [18.398       0.68623272 -1.9487162
8 -0.16432167]
Round4620-------squared error: 3.9131 parameter: [18.398       0.68622138 -1.9487265
4 -0.16431995]
Round4621-------squared error: 3.9131 parameter: [18.398       0.68621006 -1.9487368
-0.16431822]
Round4622-------squared error: 3.9131 parameter: [18.398       0.68619875 -1.9487470
4 -0.1643165 ]
Round4623-------squared error: 3.9131 parameter: [18.398       0.68618745 -1.9487572
7 -0.16431478]
Round4624-------squared error: 3.9131 parameter: [18.398       0.68617617 -1.9487675
-0.16431306]
Round4625-------squared error: 3.9131 parameter: [18.398       0.68616489 -1.9487777
1 -0.16431134]
Round4626-------squared error: 3.9131 parameter: [18.398       0.68615362 -1.9487879
2 -0.16430963]
Round4627-------squared error: 3.9131 parameter: [18.398       0.68614237 -1.9487981
1 -0.16430791]
Round4628-------squared error: 3.9131 parameter: [18.398       0.68613112 -1.9488083
-0.1643062 ]
Round4629-------squared error: 3.9131 parameter: [18.398       0.68611989 -1.9488184
7 -0.16430449]
Round4630-------squared error: 3.9131 parameter: [18.398       0.68610866 -1.9488286
3 -0.16430278]
Round4631-------squared error: 3.9131 parameter: [18.398       0.68609745 -1.9488387
9 -0.16430107]
Round4632-------squared error: 3.9131 parameter: [18.398       0.68608625 -1.9488489
3 -0.16429937]
Round4633-------squared error: 3.9131 parameter: [18.398       0.68607506 -1.9488590
7 -0.16429766]
Round4634-------squared error: 3.9131 parameter: [18.398       0.68606388 -1.9488692
-0.16429596]
Round4635-------squared error: 3.9131 parameter: [18.398       0.68605271 -1.9488793
1 -0.16429426]
Round4636-------squared error: 3.9131 parameter: [18.398       0.68604155 -1.9488894
2 -0.16429256]
Round4637-------squared error: 3.9131 parameter: [18.398       0.6860304  -1.9488995
1 -0.16429086]
Round4638-------squared error: 3.9131 parameter: [18.398       0.68601927 -1.9489096
-0.16428917]
Round4639-------squared error: 3.9131 parameter: [18.398       0.68600814 -1.9489196
8 -0.16428747]
Round4640-------squared error: 3.9131 parameter: [18.398       0.68599703 -1.9489297
5 -0.16428578]
```

```
Round4641-------squared error: 3.9131 parameter: [18.398       0.68598592 -1.9489398
-0.16428409]
Round4642-------squared error: 3.9131 parameter: [18.398       0.68597483 -1.9489498
5 -0.1642824 ]
Round4643-------squared error: 3.9131 parameter: [18.398       0.68596374 -1.9489598
9 -0.16428071]
Round4644-------squared error: 3.9131 parameter: [18.398       0.68595267 -1.9489699
2 -0.16427902]
Round4645-------squared error: 3.9131 parameter: [18.398       0.68594161 -1.9489799
4 -0.16427734]
Round4646-------squared error: 3.9131 parameter: [18.398       0.68593056 -1.9489899
5 -0.16427566]
Round4647-------squared error: 3.9131 parameter: [18.398       0.68591952 -1.9489999
5 -0.16427397]
Round4648-------squared error: 3.9131 parameter: [18.398       0.68590849 -1.9490099
4 -0.16427229]
Round4649-------squared error: 3.9131 parameter: [18.398       0.68589747 -1.9490199
2 -0.16427062]
Round4650-------squared error: 3.9131 parameter: [18.398       0.68588646 -1.9490298
9 -0.16426894]
Round4651-------squared error: 3.9131 parameter: [18.398       0.68587546 -1.9490398
5 -0.16426726]
Round4652-------squared error: 3.9131 parameter: [18.398       0.68586447 -1.9490498
-0.16426559]
Round4653-------squared error: 3.9131 parameter: [18.398       0.68585349 -1.9490597
4 -0.16426392]
Round4654-------squared error: 3.9131 parameter: [18.398       0.68584253 -1.9490696
7 -0.16426225]
Round4655-------squared error: 3.9131 parameter: [18.398       0.68583157 -1.9490796
-0.16426058]
Round4656-------squared error: 3.9131 parameter: [18.398       0.68582062 -1.9490895
1 -0.16425891]
Round4657-------squared error: 3.9131 parameter: [18.398       0.68580969 -1.9490994
1 -0.16425725]
Round4658-------squared error: 3.9131 parameter: [18.398       0.68579877 -1.9491093
1 -0.16425558]
Round4659-------squared error: 3.9131 parameter: [18.398       0.68578785 -1.9491191
9 -0.16425392]
Round4660-------squared error: 3.9131 parameter: [18.398       0.68577695 -1.9491290
7 -0.16425226]
Round4661-------squared error: 3.9131 parameter: [18.398       0.68576605 -1.9491389
3 -0.1642506 ]
Round4662-------squared error: 3.9131 parameter: [18.398       0.68575517 -1.9491487
9 -0.16424894]
Round4663-------squared error: 3.9131 parameter: [18.398       0.6857443  -1.9491586
3 -0.16424729]
Round4664-------squared error: 3.9131 parameter: [18.398       0.68573344 -1.9491684
7 -0.16424563]
Round4665-------squared error: 3.9131 parameter: [18.398       0.68572259 -1.9491783
-0.16424398]
Round4666-------squared error: 3.9131 parameter: [18.398       0.68571175 -1.9491881
2 -0.16424233]
Round4667-------squared error: 3.9131 parameter: [18.398       0.68570092 -1.9491979
3 -0.16424068]
Round4668-------squared error: 3.9131 parameter: [18.398       0.6856901  -1.9492077
3 -0.16423903]
Round4669-------squared error: 3.9131 parameter: [18.398       0.68567929 -1.9492175
2 -0.16423738]
Round4670-------squared error: 3.9131 parameter: [18.398       0.68566849 -1.9492273
-0.16423574]
Round4671-------squared error: 3.9131 parameter: [18.398       0.6856577  -1.9492370
7 -0.1642341 ]
Round4672-------squared error: 3.9131 parameter: [18.398       0.68564692 -1.9492468
3 -0.16423245]
```

```
Round4673-------squared error: 3.9131 parameter: [18.398       0.68563615 -1.9492565
8 -0.16423081]
Round4674-------squared error: 3.9131 parameter: [18.398       0.6856254  -1.9492663
2 -0.16422918]
Round4675-------squared error: 3.9131 parameter: [18.398       0.68561465 -1.9492760
6 -0.16422754]
Round4676-------squared error: 3.9131 parameter: [18.398       0.68560391 -1.9492857
8 -0.1642259 ]
Round4677-------squared error: 3.9131 parameter: [18.398       0.68559319 -1.9492954
9 -0.16422427]
Round4678-------squared error: 3.9131 parameter: [18.398       0.68558247 -1.9493052
-0.16422264]
Round4679-------squared error: 3.9131 parameter: [18.398       0.68557176 -1.9493149
-0.16422101]
Round4680-------squared error: 3.9131 parameter: [18.398       0.68556107 -1.9493245
8 -0.16421938]
Round4681-------squared error: 3.9131 parameter: [18.398       0.68555038 -1.9493342
6 -0.16421775]
Round4682-------squared error: 3.9131 parameter: [18.398       0.68553971 -1.9493439
3 -0.16421612]
Round4683-------squared error: 3.9131 parameter: [18.398       0.68552904 -1.9493535
9 -0.1642145 ]
Round4684-------squared error: 3.9131 parameter: [18.398       0.68551839 -1.9493632
3 -0.16421288]
Round4685-------squared error: 3.9131 parameter: [18.398       0.68550775 -1.9493728
7 -0.16421125]
Round4686-------squared error: 3.9131 parameter: [18.398       0.68549711 -1.9493825
1 -0.16420963]
Round4687-------squared error: 3.9131 parameter: [18.398       0.68548649 -1.9493921
3 -0.16420802]
Round4688-------squared error: 3.9131 parameter: [18.398       0.68547587 -1.9494017
4 -0.1642064 ]
Round4689-------squared error: 3.9131 parameter: [18.398       0.68546527 -1.9494113
4 -0.16420478]
Round4690-------squared error: 3.9131 parameter: [18.398       0.68545468 -1.9494209
4 -0.16420317]
Round4691-------squared error: 3.9131 parameter: [18.398       0.6854441  -1.9494305
2 -0.16420156]
Round4692-------squared error: 3.9131 parameter: [18.398       0.68543352 -1.9494400
9 -0.16419995]
Round4693-------squared error: 3.9131 parameter: [18.398       0.68542296 -1.9494496
6 -0.16419834]
Round4694-------squared error: 3.9131 parameter: [18.398       0.68541241 -1.9494592
2 -0.16419673]
Round4695-------squared error: 3.9131 parameter: [18.398       0.68540187 -1.9494687
6 -0.16419512]
Round4696-------squared error: 3.9131 parameter: [18.398       0.68539133 -1.9494783
-0.16419352]
Round4697-------squared error: 3.9131 parameter: [18.398       0.68538081 -1.9494878
3 -0.16419192]
Round4698-------squared error: 3.9131 parameter: [18.398       0.6853703  -1.9494973
5 -0.16419032]
Round4699-------squared error: 3.9131 parameter: [18.398       0.6853598  -1.9495068
6 -0.16418872]
Round4700-------squared error: 3.9131 parameter: [18.398       0.68534931 -1.9495163
6 -0.16418712]
Round4701-------squared error: 3.9131 parameter: [18.398       0.68533883 -1.9495258
6 -0.16418552]
Round4702-------squared error: 3.9131 parameter: [18.398       0.68532836 -1.9495353
4 -0.16418393]
Round4703-------squared error: 3.9131 parameter: [18.398       0.68531789 -1.9495448
1 -0.16418233]
Round4704-------squared error: 3.9131 parameter: [18.398       0.68530744 -1.9495542
8 -0.16418074]
```

```
Round4705-------squared error: 3.9131 parameter: [18.398       0.685297   -1.9495637
3 -0.16417915]
Round4706-------squared error: 3.9131 parameter: [18.398       0.68528657 -1.9495731
8 -0.16417756]
Round4707-------squared error: 3.9131 parameter: [18.398       0.68527615 -1.9495826
2 -0.16417597]
Round4708-------squared error: 3.9131 parameter: [18.398       0.68526574 -1.9495920
5 -0.16417439]
Round4709-------squared error: 3.9131 parameter: [18.398       0.68525534 -1.9496014
7 -0.1641728 ]
Round4710-------squared error: 3.9131 parameter: [18.398       0.68524495 -1.9496108
8 -0.16417122]
Round4711-------squared error: 3.9131 parameter: [18.398       0.68523457 -1.9496202
8 -0.16416964]
Round4712-------squared error: 3.9131 parameter: [18.398       0.6852242  -1.9496296
7 -0.16416806]
Round4713-------squared error: 3.9131 parameter: [18.398       0.68521383 -1.9496390
5 -0.16416648]
Round4714-------squared error: 3.9131 parameter: [18.398       0.68520348 -1.9496484
3 -0.1641649 ]
Round4715-------squared error: 3.9131 parameter: [18.398       0.68519314 -1.9496577
9 -0.16416333]
Round4716-------squared error: 3.9131 parameter: [18.398       0.68518281 -1.9496671
5 -0.16416175]
Round4717-------squared error: 3.9131 parameter: [18.398       0.68517249 -1.9496765
-0.16416018]
Round4718-------squared error: 3.9131 parameter: [18.398       0.68516218 -1.9496858
4 -0.16415861]
Round4719-------squared error: 3.9131 parameter: [18.398       0.68515188 -1.9496951
6 -0.16415704]
Round4720-------squared error: 3.9131 parameter: [18.398       0.68514159 -1.9497044
8 -0.16415547]
Round4721-------squared error: 3.9131 parameter: [18.398       0.68513131 -1.9497138
-0.1641539 ]
Round4722-------squared error: 3.9131 parameter: [18.398       0.68512103 -1.9497231
-0.16415234]
Round4723-------squared error: 3.9131 parameter: [18.398       0.68511077 -1.9497323
9 -0.16415078]
Round4724-------squared error: 3.9131 parameter: [18.398       0.68510052 -1.9497416
8 -0.16414921]
Round4725-------squared error: 3.9131 parameter: [18.398       0.68509028 -1.9497509
5 -0.16414765]
Round4726-------squared error: 3.9131 parameter: [18.398       0.68508005 -1.9497602
2 -0.16414609]
Round4727-------squared error: 3.9131 parameter: [18.398       0.68506983 -1.9497694
7 -0.16414454]
Round4728-------squared error: 3.9131 parameter: [18.398       0.68505961 -1.9497787
2 -0.16414298]
Round4729-------squared error: 3.9131 parameter: [18.398       0.68504941 -1.9497879
6 -0.16414143]
Round4730-------squared error: 3.9131 parameter: [18.398       0.68503922 -1.9497971
9 -0.16413987]
Round4731-------squared error: 3.9131 parameter: [18.398       0.68502904 -1.9498064
2 -0.16413832]
Round4732-------squared error: 3.9131 parameter: [18.398       0.68501886 -1.9498156
3 -0.16413677]
Round4733-------squared error: 3.9131 parameter: [18.398       0.6850087  -1.9498248
3 -0.16413522]
Round4734-------squared error: 3.9131 parameter: [18.398       0.68499855 -1.9498340
3 -0.16413368]
Round4735-------squared error: 3.9131 parameter: [18.398       0.6849884  -1.9498432
1 -0.16413213]
Round4736-------squared error: 3.9131 parameter: [18.398       0.68497827 -1.9498523
9 -0.16413059]
```

```
Round4737-------squared error: 3.9131 parameter: [18.398       0.68496814 -1.9498615
6 -0.16412904]
Round4738-------squared error: 3.9131 parameter: [18.398       0.68495803 -1.9498707
2 -0.1641275 ]
Round4739-------squared error: 3.9131 parameter: [18.398       0.68494793 -1.9498798
7 -0.16412596]
Round4740-------squared error: 3.9131 parameter: [18.398       0.68493783 -1.9498890
1 -0.16412442]
Round4741-------squared error: 3.9131 parameter: [18.398       0.68492775 -1.9498981
5 -0.16412289]
Round4742-------squared error: 3.9131 parameter: [18.398       0.68491767 -1.9499072
7 -0.16412135]
Round4743-------squared error: 3.9131 parameter: [18.398       0.6849076  -1.9499163
9 -0.16411982]
Round4744-------squared error: 3.9131 parameter: [18.398       0.68489755 -1.9499254
9 -0.16411829]
Round4745-------squared error: 3.9131 parameter: [18.398       0.6848875  -1.9499345
9 -0.16411675]
Round4746-------squared error: 3.9131 parameter: [18.398       0.68487746 -1.9499436
8 -0.16411523]
Round4747-------squared error: 3.9131 parameter: [18.398       0.68486744 -1.9499527
6 -0.1641137 ]
Round4748-------squared error: 3.9131 parameter: [18.398       0.68485742 -1.9499618
3 -0.16411217]
Round4749-------squared error: 3.9131 parameter: [18.398       0.68484741 -1.9499709
-0.16411065]
Round4750-------squared error: 3.9131 parameter: [18.398       0.68483741 -1.9499799
5 -0.16410912]
Round4751-------squared error: 3.9131 parameter: [18.398       0.68482743 -1.949989
-0.1641076 ]
Round4752-------squared error: 3.9131 parameter: [18.398       0.68481745 -1.9499980
3 -0.16410608]
Round4753-------squared error: 3.9131 parameter: [18.398       0.68480748 -1.9500070
6 -0.16410456]
Round4754-------squared error: 3.9131 parameter: [18.398       0.68479752 -1.9500160
8 -0.16410304]
Round4755-------squared error: 3.9131 parameter: [18.398       0.68478757 -1.9500250
9 -0.16410153]
Round4756-------squared error: 3.9131 parameter: [18.398       0.68477763 -1.9500341
-0.16410001]
Round4757-------squared error: 3.9131 parameter: [18.398       0.6847677  -1.9500430
9 -0.1640985 ]
Round4758-------squared error: 3.9131 parameter: [18.398       0.68475777 -1.9500520
7 -0.16409699]
Round4759-------squared error: 3.9131 parameter: [18.398       0.68474786 -1.9500610
5 -0.16409548]
Round4760-------squared error: 3.9131 parameter: [18.398       0.68473796 -1.9500700
2 -0.16409397]
Round4761-------squared error: 3.9131 parameter: [18.398       0.68472807 -1.9500789
8 -0.16409246]
Round4762-------squared error: 3.9131 parameter: [18.398       0.68471818 -1.9500879
3 -0.16409095]
Round4763-------squared error: 3.9131 parameter: [18.398       0.68470831 -1.9500968
7 -0.16408945]
Round4764-------squared error: 3.9131 parameter: [18.398       0.68469845 -1.9501058
-0.16408794]
Round4765-------squared error: 3.9131 parameter: [18.398       0.68468859 -1.9501147
3 -0.16408644]
Round4766-------squared error: 3.9131 parameter: [18.398       0.68467875 -1.9501236
4 -0.16408494]
Round4767-------squared error: 3.9131 parameter: [18.398       0.68466891 -1.9501325
5 -0.16408344]
Round4768-------squared error: 3.9131 parameter: [18.398       0.68465908 -1.9501414
5 -0.16408195]
```

```
Round4769-------squared error: 3.9131 parameter: [18.398       0.68464927 -1.9501503
4 -0.16408045]
Round4770-------squared error: 3.9131 parameter: [18.398       0.68463946 -1.9501592
2 -0.16407896]
Round4771-------squared error: 3.9131 parameter: [18.398       0.68462966 -1.9501680
9 -0.16407746]
Round4772-------squared error: 3.9131 parameter: [18.398       0.68461987 -1.9501769
6 -0.16407597]
Round4773-------squared error: 3.9131 parameter: [18.398       0.68461009 -1.9501858
1 -0.16407448]
Round4774-------squared error: 3.9131 parameter: [18.398       0.68460033 -1.9501946
6 -0.16407299]
Round4775-------squared error: 3.9131 parameter: [18.398       0.68459056 -1.9502035
-0.1640715 ]
Round4776-------squared error: 3.9131 parameter: [18.398       0.68458081 -1.9502123
3 -0.16407002]
Round4777-------squared error: 3.9131 parameter: [18.398       0.68457107 -1.9502211
5 -0.16406853]
Round4778-------squared error: 3.9131 parameter: [18.398       0.68456134 -1.9502299
7 -0.16406705]
Round4779-------squared error: 3.9131 parameter: [18.398       0.68455162 -1.9502387
7 -0.16406557]
Round4780-------squared error: 3.9131 parameter: [18.398       0.6845419  -1.9502475
7 -0.16406409]
Round4781-------squared error: 3.9131 parameter: [18.398       0.6845322  -1.9502563
6 -0.16406261]
Round4782-------squared error: 3.9131 parameter: [18.398       0.68452251 -1.9502651
4 -0.16406113]
Round4783-------squared error: 3.9131 parameter: [18.398       0.68451282 -1.9502739
1 -0.16405965]
Round4784-------squared error: 3.9131 parameter: [18.398       0.68450314 -1.9502826
7 -0.16405818]
Round4785-------squared error: 3.9131 parameter: [18.398       0.68449348 -1.9502914
2 -0.16405671]
Round4786-------squared error: 3.9131 parameter: [18.398       0.68448382 -1.9503001
7 -0.16405524]
Round4787-------squared error: 3.9131 parameter: [18.398       0.68447417 -1.9503089
1 -0.16405376]
Round4788-------squared error: 3.9131 parameter: [18.398       0.68446453 -1.9503176
3 -0.1640523 ]
Round4789-------squared error: 3.9131 parameter: [18.398       0.6844549  -1.9503263
6 -0.16405083]
Round4790-------squared error: 3.9131 parameter: [18.398       0.68444528 -1.9503350
7 -0.16404936]
Round4791-------squared error: 3.9131 parameter: [18.398       0.68443567 -1.9503437
7 -0.1640479 ]
Round4792-------squared error: 3.9131 parameter: [18.398       0.68442607 -1.9503524
7 -0.16404643]
Round4793-------squared error: 3.9131 parameter: [18.398       0.68441648 -1.9503611
5 -0.16404497]
Round4794-------squared error: 3.9131 parameter: [18.398       0.6844069  -1.9503698
3 -0.16404351]
Round4795-------squared error: 3.9131 parameter: [18.398       0.68439732 -1.9503785
-0.16404205]
Round4796-------squared error: 3.9131 parameter: [18.398       0.68438776 -1.9503871
6 -0.16404059]
Round4797-------squared error: 3.9131 parameter: [18.398       0.6843782  -1.9503958
2 -0.16403914]
Round4798-------squared error: 3.9131 parameter: [18.398       0.68436865 -1.9504044
6 -0.16403768]
Round4799-------squared error: 3.9131 parameter: [18.398       0.68435912 -1.9504131
-0.16403623]
Round4800-------squared error: 3.9131 parameter: [18.398       0.68434959 -1.9504217
3 -0.16403478]
```

```
Round4801-------squared error: 3.9131 parameter: [18.398       0.68434007 -1.9504303
5 -0.16403333]
Round4802-------squared error: 3.9131 parameter: [18.398       0.68433056 -1.9504389
6 -0.16403188]
Round4803-------squared error: 3.9131 parameter: [18.398       0.68432106 -1.9504475
6 -0.16403043]
Round4804-------squared error: 3.9131 parameter: [18.398       0.68431157 -1.9504561
6 -0.16402898]
Round4805-------squared error: 3.9131 parameter: [18.398       0.68430209 -1.9504647
5 -0.16402754]
Round4806-------squared error: 3.9131 parameter: [18.398       0.68429261 -1.9504733
2 -0.16402609]
Round4807-------squared error: 3.9131 parameter: [18.398       0.68428315 -1.9504818
9 -0.16402465]
Round4808-------squared error: 3.9131 parameter: [18.398       0.68427369 -1.9504904
6 -0.16402321]
Round4809-------squared error: 3.9131 parameter: [18.398       0.68426425 -1.9504990
1 -0.16402177]
Round4810-------squared error: 3.9131 parameter: [18.398       0.68425481 -1.9505075
6 -0.16402033]
Round4811-------squared error: 3.9131 parameter: [18.398       0.68424538 -1.9505160
9 -0.16401889]
Round4812-------squared error: 3.9131 parameter: [18.398       0.68423597 -1.9505246
2 -0.16401746]
Round4813-------squared error: 3.9131 parameter: [18.398       0.68422656 -1.9505331
4 -0.16401602]
Round4814-------squared error: 3.9131 parameter: [18.398       0.68421716 -1.9505416
6 -0.16401459]
Round4815-------squared error: 3.9131 parameter: [18.398       0.68420776 -1.9505501
6 -0.16401316]
Round4816-------squared error: 3.9131 parameter: [18.398       0.68419838 -1.9505586
6 -0.16401173]
Round4817-------squared error: 3.9131 parameter: [18.398       0.68418901 -1.9505671
5 -0.1640103 ]
Round4818-------squared error: 3.9131 parameter: [18.398       0.68417964 -1.9505756
3 -0.16400887]
Round4819-------squared error: 3.9131 parameter: [18.398       0.68417029 -1.9505841
-0.16400745]
Round4820-------squared error: 3.9131 parameter: [18.398       0.68416094 -1.9505925
6 -0.16400602]
Round4821-------squared error: 3.9131 parameter: [18.398       0.68415161 -1.9506010
2 -0.1640046 ]
Round4822-------squared error: 3.9131 parameter: [18.398       0.68414228 -1.9506094
7 -0.16400318]
Round4823-------squared error: 3.9131 parameter: [18.398       0.68413296 -1.9506179
-0.16400176]
Round4824-------squared error: 3.9131 parameter: [18.398       0.68412365 -1.9506263
4 -0.16400034]
Round4825-------squared error: 3.9131 parameter: [18.398       0.68411435 -1.9506347
6 -0.16399892]
Round4826-------squared error: 3.9131 parameter: [18.398       0.68410505 -1.9506431
7 -0.1639975 ]
Round4827-------squared error: 3.9131 parameter: [18.398       0.68409577 -1.9506515
8 -0.16399609]
Round4828-------squared error: 3.9131 parameter: [18.398       0.6840865  -1.9506599
8 -0.16399467]
Round4829-------squared error: 3.9131 parameter: [18.398       0.68407723 -1.9506683
7 -0.16399326]
Round4830-------squared error: 3.9131 parameter: [18.398       0.68406797 -1.9506767
5 -0.16399185]
Round4831-------squared error: 3.9131 parameter: [18.398       0.68405873 -1.9506851
3 -0.16399044]
Round4832-------squared error: 3.9131 parameter: [18.398       0.68404949 -1.9506934
9 -0.16398903]
```

```
Round4833-------squared error: 3.9131 parameter: [18.398       0.68404026 -1.9507018
5 -0.16398762]
Round4834-------squared error: 3.9131 parameter: [18.398       0.68403104 -1.9507102
-0.16398622]
Round4835-------squared error: 3.9131 parameter: [18.398       0.68402182 -1.9507185
4 -0.16398481]
Round4836-------squared error: 3.9131 parameter: [18.398       0.68401262 -1.9507268
8 -0.16398341]
Round4837-------squared error: 3.9131 parameter: [18.398       0.68400343 -1.9507352
-0.16398201]
Round4838-------squared error: 3.9131 parameter: [18.398       0.68399424 -1.9507435
2 -0.16398061]
Round4839-------squared error: 3.9131 parameter: [18.398       0.68398506 -1.9507518
3 -0.16397921]
Round4840-------squared error: 3.9131 parameter: [18.398       0.6839759  -1.9507601
4 -0.16397781]
Round4841-------squared error: 3.9131 parameter: [18.398       0.68396674 -1.9507684
3 -0.16397642]
Round4842-------squared error: 3.9131 parameter: [18.398       0.68395759 -1.9507767
2 -0.16397502]
Round4843-------squared error: 3.9131 parameter: [18.398       0.68394845 -1.9507849
9 -0.16397363]
Round4844-------squared error: 3.9131 parameter: [18.398       0.68393931 -1.9507932
6 -0.16397224]
Round4845-------squared error: 3.9131 parameter: [18.398       0.68393019 -1.9508015
3 -0.16397085]
Round4846-------squared error: 3.9131 parameter: [18.398       0.68392107 -1.9508097
8 -0.16396946]
Round4847-------squared error: 3.9131 parameter: [18.398       0.68391197 -1.9508180
3 -0.16396807]
Round4848-------squared error: 3.9131 parameter: [18.398       0.68390287 -1.9508262
7 -0.16396668]
Round4849-------squared error: 3.9131 parameter: [18.398       0.68389378 -1.9508345
-0.16396529]
Round4850-------squared error: 3.9131 parameter: [18.398       0.6838847  -1.9508427
2 -0.16396391]
Round4851-------squared error: 3.9131 parameter: [18.398       0.68387563 -1.9508509
3 -0.16396253]
Round4852-------squared error: 3.9131 parameter: [18.398       0.68386657 -1.9508591
4 -0.16396115]
Round4853-------squared error: 3.9131 parameter: [18.398       0.68385751 -1.9508673
4 -0.16395977]
Round4854-------squared error: 3.9131 parameter: [18.398       0.68384847 -1.9508755
3 -0.16395839]
Round4855-------squared error: 3.9131 parameter: [18.398       0.68383943 -1.9508837
1 -0.16395701]
Round4856-------squared error: 3.9131 parameter: [18.398       0.6838304  -1.9508918
9 -0.16395563]
Round4857-------squared error: 3.9131 parameter: [18.398       0.68382138 -1.9509000
5 -0.16395426]
Round4858-------squared error: 3.9131 parameter: [18.398       0.68381237 -1.9509082
1 -0.16395288]
Round4859-------squared error: 3.9131 parameter: [18.398       0.68380337 -1.9509163
7 -0.16395151]
Round4860-------squared error: 3.9131 parameter: [18.398       0.68379438 -1.9509245
1 -0.16395014]
Round4861-------squared error: 3.9131 parameter: [18.398       0.6837854  -1.9509326
4 -0.16394877]
Round4862-------squared error: 3.9131 parameter: [18.398       0.68377642 -1.9509407
7 -0.1639474 ]
Round4863-------squared error: 3.9131 parameter: [18.398       0.68376745 -1.9509488
9 -0.16394604]
Round4864-------squared error: 3.9131 parameter: [18.398       0.68375849 -1.9509570
1 -0.16394467]
```

```
Round4865-------squared error: 3.9131 parameter: [18.398       0.68374954 -1.9509651
1 -0.16394331]
Round4866-------squared error: 3.9131 parameter: [18.398       0.6837406  -1.9509732
1 -0.16394194]
Round4867-------squared error: 3.9131 parameter: [18.398       0.68373167 -1.9509813
-0.16394058]
Round4868-------squared error: 3.9131 parameter: [18.398       0.68372275 -1.9509893
8 -0.16393922]
Round4869-------squared error: 3.9131 parameter: [18.398       0.68371383 -1.9509974
5 -0.16393786]
Round4870-------squared error: 3.9131 parameter: [18.398       0.68370492 -1.9510055
2 -0.1639365 ]
Round4871-------squared error: 3.9131 parameter: [18.398       0.68369603 -1.9510135
7 -0.16393515]
Round4872-------squared error: 3.9131 parameter: [18.398       0.68368714 -1.9510216
2 -0.16393379]
Round4873-------squared error: 3.9131 parameter: [18.398       0.68367826 -1.9510296
7 -0.16393244]
Round4874-------squared error: 3.9131 parameter: [18.398       0.68366938 -1.9510377
-0.16393108]
Round4875-------squared error: 3.9131 parameter: [18.398       0.68366052 -1.9510457
3 -0.16392973]
Round4876-------squared error: 3.9131 parameter: [18.398       0.68365166 -1.9510537
5 -0.16392838]
Round4877-------squared error: 3.9131 parameter: [18.398       0.68364282 -1.9510617
6 -0.16392703]
Round4878-------squared error: 3.9131 parameter: [18.398       0.68363398 -1.9510697
6 -0.16392569]
Round4879-------squared error: 3.9131 parameter: [18.398       0.68362515 -1.9510777
6 -0.16392434]
Round4880-------squared error: 3.9131 parameter: [18.398       0.68361633 -1.9510857
4 -0.16392299]
Round4881-------squared error: 3.9131 parameter: [18.398       0.68360751 -1.9510937
3 -0.16392165]
Round4882-------squared error: 3.9131 parameter: [18.398       0.68359871 -1.9511017
-0.16392031]
Round4883-------squared error: 3.9131 parameter: [18.398       0.68358991 -1.9511096
6 -0.16391897]
Round4884-------squared error: 3.9131 parameter: [18.398       0.68358113 -1.9511176
2 -0.16391763]
Round4885-------squared error: 3.9131 parameter: [18.398       0.68357235 -1.9511255
7 -0.16391629]
Round4886-------squared error: 3.9131 parameter: [18.398       0.68356358 -1.9511335
1 -0.16391495]
Round4887-------squared error: 3.9131 parameter: [18.398       0.68355481 -1.9511414
5 -0.16391362]
Round4888-------squared error: 3.9131 parameter: [18.398       0.68354606 -1.9511493
7 -0.16391228]
Round4889-------squared error: 3.9131 parameter: [18.398       0.68353732 -1.9511572
9 -0.16391095]
Round4890-------squared error: 3.9131 parameter: [18.398       0.68352858 -1.9511652
-0.16390961]
Round4891-------squared error: 3.9131 parameter: [18.398       0.68351985 -1.9511731
1 -0.16390828]
Round4892-------squared error: 3.9131 parameter: [18.398       0.68351113 -1.951181
-0.16390695]
Round4893-------squared error: 3.9131 parameter: [18.398       0.68350242 -1.9511888
9 -0.16390563]
Round4894-------squared error: 3.9131 parameter: [18.398       0.68349372 -1.9511967
7 -0.1639043 ]
Round4895-------squared error: 3.9131 parameter: [18.398       0.68348502 -1.9512046
5 -0.16390297]
Round4896-------squared error: 3.9131 parameter: [18.398       0.68347633 -1.9512125
1 -0.16390165]
```

```
Round4897-------squared error: 3.9131 parameter: [18.398       0.68346766 -1.9512203
7 -0.16390033]
Round4898-------squared error: 3.9131 parameter: [18.398       0.68345899 -1.9512282
2 -0.163899  ]
Round4899-------squared error: 3.9131 parameter: [18.398       0.68345033 -1.9512360
7 -0.16389768]
Round4900-------squared error: 3.9131 parameter: [18.398       0.68344167 -1.9512439
-0.16389636]
Round4901-------squared error: 3.9131 parameter: [18.398       0.68343303 -1.9512517
3 -0.16389505]
Round4902-------squared error: 3.9131 parameter: [18.398       0.68342439 -1.9512595
5 -0.16389373]
Round4903-------squared error: 3.9131 parameter: [18.398       0.68341576 -1.9512673
6 -0.16389241]
Round4904-------squared error: 3.9131 parameter: [18.398       0.68340714 -1.9512751
7 -0.1638911 ]
Round4905-------squared error: 3.9131 parameter: [18.398       0.68339853 -1.9512829
7 -0.16388979]
Round4906-------squared error: 3.9131 parameter: [18.398       0.68338993 -1.9512907
6 -0.16388847]
Round4907-------squared error: 3.9131 parameter: [18.398       0.68338133 -1.9512985
4 -0.16388716]
Round4908-------squared error: 3.9131 parameter: [18.398       0.68337275 -1.9513063
2 -0.16388585]
Round4909-------squared error: 3.9131 parameter: [18.398       0.68336417 -1.9513140
8 -0.16388455]
Round4910-------squared error: 3.9131 parameter: [18.398       0.6833556  -1.9513218
5 -0.16388324]
Round4911-------squared error: 3.9131 parameter: [18.398       0.68334704 -1.9513296
-0.16388193]
Round4912-------squared error: 3.9131 parameter: [18.398       0.68333848 -1.9513373
4 -0.16388063]
Round4913-------squared error: 3.9131 parameter: [18.398       0.68332994 -1.9513450
8 -0.16387933]
Round4914-------squared error: 3.9131 parameter: [18.398       0.6833214  -1.9513528
1 -0.16387802]
Round4915-------squared error: 3.9131 parameter: [18.398       0.68331287 -1.9513605
4 -0.16387672]
Round4916-------squared error: 3.9131 parameter: [18.398       0.68330435 -1.9513682
5 -0.16387542]
Round4917-------squared error: 3.9131 parameter: [18.398       0.68329584 -1.9513759
6 -0.16387413]
Round4918-------squared error: 3.9131 parameter: [18.398       0.68328733 -1.9513836
6 -0.16387283]
Round4919-------squared error: 3.9131 parameter: [18.398       0.68327884 -1.9513913
5 -0.16387153]
Round4920-------squared error: 3.9131 parameter: [18.398       0.68327035 -1.9513990
4 -0.16387024]
Round4921-------squared error: 3.9131 parameter: [18.398       0.68326187 -1.9514067
2 -0.16386895]
Round4922-------squared error: 3.9131 parameter: [18.398       0.6832534  -1.9514143
9 -0.16386765]
Round4923-------squared error: 3.9131 parameter: [18.398       0.68324493 -1.9514220
5 -0.16386636]
Round4924-------squared error: 3.9131 parameter: [18.398       0.68323648 -1.9514297
1 -0.16386507]
Round4925-------squared error: 3.9131 parameter: [18.398       0.68322803 -1.9514373
6 -0.16386379]
Round4926-------squared error: 3.9131 parameter: [18.398       0.68321959 -1.951445
-0.1638625 ]
Round4927-------squared error: 3.9131 parameter: [18.398       0.68321116 -1.9514526
4 -0.16386121]
Round4928-------squared error: 3.9131 parameter: [18.398       0.68320274 -1.9514602
6 -0.16385993]
```

```
Round4929-------squared error: 3.9131 parameter: [18.398       0.68319432 -1.9514678
8 -0.16385865]
Round4930-------squared error: 3.9131 parameter: [18.398       0.68318592 -1.9514755
-0.16385736]
Round4931-------squared error: 3.9131 parameter: [18.398       0.68317752 -1.9514831
-0.16385608]
Round4932-------squared error: 3.9131 parameter: [18.398       0.68316913 -1.9514907
-0.1638548 ]
Round4933-------squared error: 3.9131 parameter: [18.398       0.68316075 -1.9514982
9 -0.16385353]
Round4934-------squared error: 3.9131 parameter: [18.398       0.68315237 -1.9515058
7 -0.16385225]
Round4935-------squared error: 3.9131 parameter: [18.398       0.68314401 -1.9515134
5 -0.16385097]
Round4936-------squared error: 3.9131 parameter: [18.398       0.68313565 -1.9515210
2 -0.1638497 ]
Round4937-------squared error: 3.9131 parameter: [18.398       0.6831273  -1.9515285
8 -0.16384842]
Round4938-------squared error: 3.9131 parameter: [18.398       0.68311896 -1.9515361
3 -0.16384715]
Round4939-------squared error: 3.9131 parameter: [18.398       0.68311062 -1.9515436
8 -0.16384588]
Round4940-------squared error: 3.9131 parameter: [18.398       0.6831023  -1.9515512
2 -0.16384461]
Round4941-------squared error: 3.9131 parameter: [18.398       0.68309398 -1.9515587
5 -0.16384334]
Round4942-------squared error: 3.9131 parameter: [18.398       0.68308567 -1.9515662
7 -0.16384208]
Round4943-------squared error: 3.9131 parameter: [18.398       0.68307737 -1.9515737
9 -0.16384081]
Round4944-------squared error: 3.9131 parameter: [18.398       0.68306907 -1.9515813
-0.16383955]
Round4945-------squared error: 3.9131 parameter: [18.398       0.68306079 -1.9515888
1 -0.16383828]
Round4946-------squared error: 3.9131 parameter: [18.398       0.68305251 -1.9515963
-0.16383702]
Round4947-------squared error: 3.9131 parameter: [18.398       0.68304424 -1.9516037
9 -0.16383576]
Round4948-------squared error: 3.9131 parameter: [18.398       0.68303598 -1.9516112
7 -0.1638345 ]
Round4949-------squared error: 3.9131 parameter: [18.398       0.68302772 -1.9516187
5 -0.16383324]
Round4950-------squared error: 3.9131 parameter: [18.398       0.68301948 -1.9516262
1 -0.16383198]
Round4951-------squared error: 3.9131 parameter: [18.398       0.68301124 -1.9516336
7 -0.16383073]
Round4952-------squared error: 3.9131 parameter: [18.398       0.68300301 -1.9516411
3 -0.16382947]
Round4953-------squared error: 3.9131 parameter: [18.398       0.68299478 -1.9516485
7 -0.16382822]
Round4954-------squared error: 3.9131 parameter: [18.398       0.68298657 -1.9516560
1 -0.16382696]
Round4955-------squared error: 3.9131 parameter: [18.398       0.68297836 -1.9516634
4 -0.16382571]
Round4956-------squared error: 3.9131 parameter: [18.398       0.68297016 -1.9516708
6 -0.16382446]
Round4957-------squared error: 3.9131 parameter: [18.398       0.68296197 -1.9516782
8 -0.16382321]
Round4958-------squared error: 3.9131 parameter: [18.398       0.68295379 -1.9516856
9 -0.16382196]
Round4959-------squared error: 3.9131 parameter: [18.398       0.68294562 -1.9516930
9 -0.16382072]
Round4960-------squared error: 3.9131 parameter: [18.398       0.68293745 -1.9517004
9 -0.16381947]
```

```
Round4961-------squared error: 3.9131 parameter: [18.398       0.68292929 -1.9517078
8 -0.16381823]
Round4962-------squared error: 3.9131 parameter: [18.398       0.68292114 -1.9517152
6 -0.16381698]
Round4963-------squared error: 3.9131 parameter: [18.398       0.68291299 -1.9517226
3 -0.16381574]
Round4964-------squared error: 3.9131 parameter: [18.398       0.68290486 -1.95173
-0.1638145 ]
Round4965-------squared error: 3.9131 parameter: [18.398       0.68289673 -1.9517373
6 -0.16381326]
Round4966-------squared error: 3.9131 parameter: [18.398       0.68288861 -1.9517447
1 -0.16381202]
Round4967-------squared error: 3.9131 parameter: [18.398       0.6828805  -1.9517520
6 -0.16381079]
Round4968-------squared error: 3.9131 parameter: [18.398       0.68287239 -1.9517594
-0.16380955]
Round4969-------squared error: 3.9131 parameter: [18.398       0.6828643  -1.9517667
3 -0.16380832]
Round4970-------squared error: 3.9131 parameter: [18.398       0.68285621 -1.9517740
5 -0.16380708]
Round4971-------squared error: 3.9131 parameter: [18.398       0.68284813 -1.9517813
7 -0.16380585]
Round4972-------squared error: 3.9131 parameter: [18.398       0.68284005 -1.9517886
8 -0.16380462]
Round4973-------squared error: 3.9131 parameter: [18.398       0.68283199 -1.9517959
8 -0.16380339]
Round4974-------squared error: 3.9131 parameter: [18.398       0.68282393 -1.9518032
8 -0.16380216]
Round4975-------squared error: 3.9131 parameter: [18.398       0.68281588 -1.9518105
7 -0.16380093]
Round4976-------squared error: 3.9131 parameter: [18.398       0.68280784 -1.9518178
5 -0.1637997 ]
Round4977-------squared error: 3.9131 parameter: [18.398       0.6827998  -1.9518251
3 -0.16379848]
Round4978-------squared error: 3.9131 parameter: [18.398       0.68279178 -1.9518324
-0.16379725]
Round4979-------squared error: 3.9131 parameter: [18.398       0.68278376 -1.9518396
6 -0.16379603]
Round4980-------squared error: 3.9131 parameter: [18.398       0.68277575 -1.9518469
1 -0.16379481]
Round4981-------squared error: 3.9131 parameter: [18.398       0.68276774 -1.9518541
6 -0.16379359]
Round4982-------squared error: 3.9131 parameter: [18.398       0.68275975 -1.9518614
-0.16379237]
Round4983-------squared error: 3.9131 parameter: [18.398       0.68275176 -1.9518686
3 -0.16379115]
Round4984-------squared error: 3.9131 parameter: [18.398       0.68274378 -1.9518758
6 -0.16378993]
Round4985-------squared error: 3.9131 parameter: [18.398       0.68273581 -1.9518830
8 -0.16378872]
Round4986-------squared error: 3.9131 parameter: [18.398       0.68272784 -1.9518902
9 -0.1637875 ]
Round4987-------squared error: 3.9131 parameter: [18.398       0.68271988 -1.9518975
-0.16378629]
Round4988-------squared error: 3.9131 parameter: [18.398       0.68271193 -1.9519046
9 -0.16378508]
Round4989-------squared error: 3.9131 parameter: [18.398       0.68270399 -1.9519118
9 -0.16378387]
Round4990-------squared error: 3.9131 parameter: [18.398       0.68269606 -1.9519190
7 -0.16378266]
Round4991-------squared error: 3.9131 parameter: [18.398       0.68268813 -1.9519262
5 -0.16378145]
Round4992-------squared error: 3.9131 parameter: [18.398       0.68268021 -1.9519334
2 -0.16378024]
```

```
Round4993-------squared error: 3.9131 parameter: [18.398       0.6826723  -1.9519405
8 -0.16377903]
Round4994-------squared error: 3.9131 parameter: [18.398       0.6826644  -1.9519477
4 -0.16377783]
Round4995-------squared error: 3.9131 parameter: [18.398       0.6826565  -1.9519548
9 -0.16377662]
Round4996-------squared error: 3.9131 parameter: [18.398       0.68264861 -1.9519620
3 -0.16377542]
Round4997-------squared error: 3.9131 parameter: [18.398       0.68264073 -1.9519691
7 -0.16377422]
Round4998-------squared error: 3.9131 parameter: [18.398       0.68263286 -1.9519763
-0.16377302]
Round4999-------squared error: 3.9131 parameter: [18.398       0.68262499 -1.9519834
2 -0.16377182]
Round5000-------squared error: 3.9131 parameter: [18.398       0.68261713 -1.9519905
4 -0.16377062]
Round5001-------squared error: 3.9131 parameter: [18.398       0.68260928 -1.9519976
5 -0.16376942]
Round5002-------squared error: 3.9131 parameter: [18.398       0.68260144 -1.9520047
5 -0.16376822]
Round5003-------squared error: 3.9131 parameter: [18.398       0.6825936  -1.9520118
4 -0.16376703]
Round5004-------squared error: 3.9131 parameter: [18.398       0.68258577 -1.9520189
3 -0.16376583]
Round5005-------squared error: 3.9131 parameter: [18.398       0.68257795 -1.9520260
1 -0.16376464]
Round5006-------squared error: 3.9131 parameter: [18.398       0.68257014 -1.9520330
9 -0.16376345]
Round5007-------squared error: 3.9131 parameter: [18.398       0.68256233 -1.9520401
6 -0.16376226]
Round5008-------squared error: 3.9131 parameter: [18.398       0.68255454 -1.9520472
2 -0.16376107]
Round5009-------squared error: 3.9131 parameter: [18.398       0.68254674 -1.9520542
7 -0.16375988]
Round5010-------squared error: 3.9131 parameter: [18.398       0.68253896 -1.9520613
2 -0.16375869]
Round5011-------squared error: 3.9131 parameter: [18.398       0.68253119 -1.9520683
6 -0.16375751]
Round5012-------squared error: 3.9131 parameter: [18.398       0.68252342 -1.9520753
9 -0.16375632]
Round5013-------squared error: 3.9131 parameter: [18.398       0.68251566 -1.9520824
2 -0.16375514]
Round5014-------squared error: 3.9131 parameter: [18.398       0.6825079  -1.9520894
4 -0.16375396]
Round5015-------squared error: 3.9131 parameter: [18.398       0.68250016 -1.9520964
6 -0.16375277]
Round5016-------squared error: 3.9131 parameter: [18.398       0.68249242 -1.9521034
6 -0.16375159]
Round5017-------squared error: 3.9131 parameter: [18.398       0.68248469 -1.9521104
6 -0.16375042]
Round5018-------squared error: 3.9131 parameter: [18.398       0.68247697 -1.9521174
6 -0.16374924]
Round5019-------squared error: 3.9131 parameter: [18.398       0.68246925 -1.9521244
4 -0.16374806]
Round5020-------squared error: 3.9131 parameter: [18.398       0.68246154 -1.9521314
2 -0.16374688]
Round5021-------squared error: 3.9131 parameter: [18.398       0.68245384 -1.9521384
-0.16374571]
Round5022-------squared error: 3.9131 parameter: [18.398       0.68244615 -1.9521453
6 -0.16374454]
Round5023-------squared error: 3.9131 parameter: [18.398       0.68243846 -1.9521523
2 -0.16374336]
Round5024-------squared error: 3.9131 parameter: [18.398       0.68243078 -1.9521592
8 -0.16374219]
```

```
Round5025-------squared error: 3.9131 parameter: [18.398       0.68242311 -1.9521662
2 -0.16374102]
Round5026-------squared error: 3.9131 parameter: [18.398       0.68241545 -1.9521731
6 -0.16373985]
Round5027-------squared error: 3.9131 parameter: [18.398       0.68240779 -1.9521801
-0.16373869]
Round5028-------squared error: 3.9131 parameter: [18.398       0.68240014 -1.9521870
2 -0.16373752]
Round5029-------squared error: 3.9131 parameter: [18.398       0.6823925  -1.9521939
4 -0.16373635]
Round5030-------squared error: 3.9131 parameter: [18.398       0.68238486 -1.9522008
5 -0.16373519]
Round5031-------squared error: 3.9131 parameter: [18.398       0.68237724 -1.9522077
6 -0.16373402]
Round5032-------squared error: 3.9131 parameter: [18.398       0.68236962 -1.9522146
6 -0.16373286]
Round5033-------squared error: 3.9131 parameter: [18.398       0.682362   -1.9522215
5 -0.1637317 ]
Round5034-------squared error: 3.9131 parameter: [18.398       0.6823544  -1.9522284
4 -0.16373054]
Round5035-------squared error: 3.9131 parameter: [18.398       0.6823468  -1.9522353
2 -0.16372938]
Round5036-------squared error: 3.9131 parameter: [18.398       0.68233921 -1.9522421
9 -0.16372822]
Round5037-------squared error: 3.9131 parameter: [18.398       0.68233163 -1.9522490
6 -0.16372707]
Round5038-------squared error: 3.9131 parameter: [18.398       0.68232405 -1.9522559
2 -0.16372591]
Round5039-------squared error: 3.9131 parameter: [18.398       0.68231648 -1.9522627
7 -0.16372476]
Round5040-------squared error: 3.9131 parameter: [18.398       0.68230892 -1.9522696
2 -0.1637236 ]
Round5041-------squared error: 3.9131 parameter: [18.398       0.68230137 -1.9522764
6 -0.16372245]
Round5042-------squared error: 3.9131 parameter: [18.398       0.68229382 -1.9522832
9 -0.1637213 ]
Round5043-------squared error: 3.9131 parameter: [18.398       0.68228628 -1.9522901
2 -0.16372015]
Round5044-------squared error: 3.9131 parameter: [18.398       0.68227875 -1.9522969
4 -0.163719  ]
Round5045-------squared error: 3.9131 parameter: [18.398       0.68227122 -1.9523037
5 -0.16371785]
Round5046-------squared error: 3.9131 parameter: [18.398       0.6822637  -1.9523105
6 -0.16371671]
Round5047-------squared error: 3.9131 parameter: [18.398       0.68225619 -1.9523173
6 -0.16371556]
Round5048-------squared error: 3.9131 parameter: [18.398       0.68224869 -1.9523241
6 -0.16371442]
Round5049-------squared error: 3.9131 parameter: [18.398       0.68224119 -1.9523309
4 -0.16371327]
Round5050-------squared error: 3.9131 parameter: [18.398       0.68223371 -1.9523377
2 -0.16371213]
Round5051-------squared error: 3.9131 parameter: [18.398       0.68222622 -1.9523445
-0.16371099]
Round5052-------squared error: 3.9131 parameter: [18.398       0.68221875 -1.9523512
7 -0.16370985]
Round5053-------squared error: 3.9131 parameter: [18.398       0.68221128 -1.9523580
3 -0.16370871]
Round5054-------squared error: 3.9131 parameter: [18.398       0.68220382 -1.9523647
8 -0.16370757]
Round5055-------squared error: 3.9131 parameter: [18.398       0.68219637 -1.9523715
3 -0.16370643]
Round5056-------squared error: 3.9131 parameter: [18.398       0.68218892 -1.9523782
7 -0.1637053 ]
```

```
Round5057-------squared error: 3.9131 parameter: [18.398       0.68218149 -1.9523850
1 -0.16370416]
Round5058-------squared error: 3.9131 parameter: [18.398       0.68217405 -1.9523917
4 -0.16370303]
Round5059-------squared error: 3.9131 parameter: [18.398       0.68216663 -1.9523984
6 -0.1637019 ]
Round5060-------squared error: 3.9131 parameter: [18.398       0.68215921 -1.9524051
8 -0.16370077]
Round5061-------squared error: 3.9131 parameter: [18.398       0.6821518  -1.9524118
9 -0.16369963]
Round5062-------squared error: 3.9131 parameter: [18.398       0.6821444  -1.9524185
9 -0.16369851]
Round5063-------squared error: 3.9131 parameter: [18.398       0.682137   -1.9524252
9 -0.16369738]
Round5064-------squared error: 3.9131 parameter: [18.398       0.68212962 -1.9524319
8 -0.16369625]
Round5065-------squared error: 3.9131 parameter: [18.398       0.68212223 -1.9524386
6 -0.16369512]
Round5066-------squared error: 3.9131 parameter: [18.398       0.68211486 -1.9524453
4 -0.163694  ]
Round5067-------squared error: 3.9131 parameter: [18.398       0.68210749 -1.9524520
1 -0.16369287]
Round5068-------squared error: 3.9131 parameter: [18.398       0.68210013 -1.9524586
7 -0.16369175]
Round5069-------squared error: 3.9131 parameter: [18.398       0.68209278 -1.9524653
3 -0.16369063]
Round5070-------squared error: 3.9131 parameter: [18.398       0.68208543 -1.9524719
8 -0.16368951]
Round5071-------squared error: 3.9131 parameter: [18.398       0.68207809 -1.9524786
3 -0.16368839]
Round5072-------squared error: 3.9131 parameter: [18.398       0.68207076 -1.9524852
7 -0.16368727]
Round5073-------squared error: 3.9131 parameter: [18.398       0.68206344 -1.9524919
-0.16368615]
Round5074-------squared error: 3.9131 parameter: [18.398       0.68205612 -1.9524985
2 -0.16368504]
Round5075-------squared error: 3.9131 parameter: [18.398       0.68204881 -1.9525051
4 -0.16368392]
Round5076-------squared error: 3.9131 parameter: [18.398       0.68204151 -1.9525117
6 -0.16368281]
Round5077-------squared error: 3.9131 parameter: [18.398       0.68203421 -1.9525183
6 -0.16368169]
Round5078-------squared error: 3.9131 parameter: [18.398       0.68202692 -1.9525249
7 -0.16368058]
Round5079-------squared error: 3.9131 parameter: [18.398       0.68201964 -1.9525315
6 -0.16367947]
Round5080-------squared error: 3.9131 parameter: [18.398       0.68201236 -1.9525381
5 -0.16367836]
Round5081-------squared error: 3.9131 parameter: [18.398       0.68200509 -1.9525447
3 -0.16367725]
Round5082-------squared error: 3.9131 parameter: [18.398       0.68199783 -1.9525513
-0.16367614]
Round5083-------squared error: 3.9131 parameter: [18.398       0.68199058 -1.9525578
7 -0.16367504]
Round5084-------squared error: 3.9131 parameter: [18.398       0.68198333 -1.9525644
3 -0.16367393]
Round5085-------squared error: 3.9131 parameter: [18.398       0.68197609 -1.9525709
9 -0.16367283]
Round5086-------squared error: 3.9131 parameter: [18.398       0.68196885 -1.9525775
4 -0.16367172]
Round5087-------squared error: 3.9131 parameter: [18.398       0.68196163 -1.9525840
8 -0.16367062]
Round5088-------squared error: 3.9131 parameter: [18.398       0.68195441 -1.9525906
2 -0.16366952]
```

```
Round5089-------squared error: 3.9131 parameter: [18.398       0.68194719 -1.9525971
5 -0.16366842]
Round5090-------squared error: 3.9131 parameter: [18.398       0.68193999 -1.9526036
8 -0.16366732]
Round5091-------squared error: 3.9131 parameter: [18.398       0.68193279 -1.9526102
-0.16366622]
Round5092-------squared error: 3.9131 parameter: [18.398       0.6819256  -1.9526167
1 -0.16366512]
Round5093-------squared error: 3.9131 parameter: [18.398       0.68191841 -1.9526232
1 -0.16366403]
Round5094-------squared error: 3.9131 parameter: [18.398       0.68191123 -1.9526297
1 -0.16366293]
Round5095-------squared error: 3.9131 parameter: [18.398       0.68190406 -1.9526362
1 -0.16366184]
Round5096-------squared error: 3.9131 parameter: [18.398       0.6818969  -1.9526426
9 -0.16366075]
Round5097-------squared error: 3.9131 parameter: [18.398       0.68188974 -1.9526491
7 -0.16365965]
Round5098-------squared error: 3.9131 parameter: [18.398       0.68188259 -1.9526556
5 -0.16365856]
Round5099-------squared error: 3.9131 parameter: [18.398       0.68187545 -1.9526621
2 -0.16365747]
Round5100-------squared error: 3.9131 parameter: [18.398       0.68186831 -1.9526685
8 -0.16365638]
Round5101-------squared error: 3.9131 parameter: [18.398       0.68186118 -1.9526750
3 -0.1636553 ]
Round5102-------squared error: 3.9131 parameter: [18.398       0.68185406 -1.9526814
8 -0.16365421]
Round5103-------squared error: 3.9131 parameter: [18.398       0.68184694 -1.9526879
3 -0.16365312]
Round5104-------squared error: 3.9131 parameter: [18.398       0.68183983 -1.9526943
6 -0.16365204]
Round5105-------squared error: 3.9131 parameter: [18.398       0.68183273 -1.9527008
-0.16365096]
Round5106-------squared error: 3.9131 parameter: [18.398       0.68182563 -1.9527072
2 -0.16364987]
Round5107-------squared error: 3.9131 parameter: [18.398       0.68181855 -1.9527136
4 -0.16364879]
Round5108-------squared error: 3.9131 parameter: [18.398       0.68181146 -1.9527200
5 -0.16364771]
Round5109-------squared error: 3.9131 parameter: [18.398       0.68180439 -1.9527264
6 -0.16364663]
Round5110-------squared error: 3.9131 parameter: [18.398       0.68179732 -1.9527328
6 -0.16364555]
Round5111-------squared error: 3.9131 parameter: [18.398       0.68179026 -1.9527392
5 -0.16364448]
Round5112-------squared error: 3.9131 parameter: [18.398       0.6817832  -1.9527456
4 -0.1636434 ]
Round5113-------squared error: 3.9131 parameter: [18.398       0.68177616 -1.9527520
2 -0.16364232]
Round5114-------squared error: 3.9131 parameter: [18.398       0.68176912 -1.9527584
-0.16364125]
Round5115-------squared error: 3.9131 parameter: [18.398       0.68176208 -1.9527647
7 -0.16364018]
Round5116-------squared error: 3.9131 parameter: [18.398       0.68175505 -1.9527711
3 -0.1636391 ]
Round5117-------squared error: 3.9131 parameter: [18.398       0.68174803 -1.9527774
9 -0.16363803]
Round5118-------squared error: 3.9131 parameter: [18.398       0.68174102 -1.9527838
4 -0.16363696]
Round5119-------squared error: 3.9131 parameter: [18.398       0.68173401 -1.9527901
8 -0.16363589]
Round5120-------squared error: 3.9131 parameter: [18.398       0.68172701 -1.9527965
2 -0.16363483]
```

```
Round5121-------squared error: 3.9131 parameter: [18.398       0.68172002 -1.9528028
5 -0.16363376]
Round5122-------squared error: 3.9131 parameter: [18.398       0.68171303 -1.9528091
8 -0.16363269]
Round5123-------squared error: 3.9131 parameter: [18.398       0.68170605 -1.9528155
-0.16363163]
Round5124-------squared error: 3.9131 parameter: [18.398       0.68169908 -1.9528218
1 -0.16363056]
Round5125-------squared error: 3.9131 parameter: [18.398       0.68169211 -1.9528281
2 -0.1636295 ]
Round5126-------squared error: 3.9131 parameter: [18.398       0.68168515 -1.9528344
3 -0.16362844]
Round5127-------squared error: 3.9131 parameter: [18.398       0.68167819 -1.9528407
2 -0.16362738]
Round5128-------squared error: 3.9131 parameter: [18.398       0.68167125 -1.9528470
1 -0.16362632]
Round5129-------squared error: 3.9131 parameter: [18.398       0.68166431 -1.9528533
-0.16362526]
Round5130-------squared error: 3.9131 parameter: [18.398       0.68165737 -1.9528595
7 -0.1636242 ]
Round5131-------squared error: 3.9131 parameter: [18.398       0.68165045 -1.9528658
5 -0.16362314]
Round5132-------squared error: 3.9131 parameter: [18.398       0.68164353 -1.9528721
1 -0.16362209]
Round5133-------squared error: 3.9131 parameter: [18.398       0.68163661 -1.9528783
7 -0.16362103]
Round5134-------squared error: 3.9131 parameter: [18.398       0.68162971 -1.9528846
2 -0.16361998]
Round5135-------squared error: 3.9131 parameter: [18.398       0.68162281 -1.9528908
7 -0.16361893]
Round5136-------squared error: 3.9131 parameter: [18.398       0.68161591 -1.9528971
1 -0.16361787]
Round5137-------squared error: 3.9131 parameter: [18.398       0.68160903 -1.9529033
5 -0.16361682]
Round5138-------squared error: 3.9131 parameter: [18.398       0.68160215 -1.9529095
8 -0.16361577]
Round5139-------squared error: 3.9131 parameter: [18.398       0.68159527 -1.9529158
-0.16361473]
Round5140-------squared error: 3.9131 parameter: [18.398       0.68158841 -1.9529220
2 -0.16361368]
Round5141-------squared error: 3.9131 parameter: [18.398       0.68158155 -1.9529282
3 -0.16361263]
Round5142-------squared error: 3.9131 parameter: [18.398       0.68157469 -1.9529344
4 -0.16361159]
Round5143-------squared error: 3.9131 parameter: [18.398       0.68156784 -1.9529406
4 -0.16361054]
Round5144-------squared error: 3.9131 parameter: [18.398       0.681561   -1.9529468
3 -0.1636095 ]
Round5145-------squared error: 3.9131 parameter: [18.398       0.68155417 -1.9529530
2 -0.16360845]
Round5146-------squared error: 3.9131 parameter: [18.398       0.68154734 -1.9529592
-0.16360741]
Round5147-------squared error: 3.9131 parameter: [18.398       0.68154052 -1.9529653
8 -0.16360637]
Round5148-------squared error: 3.9131 parameter: [18.398       0.68153371 -1.9529715
5 -0.16360533]
Round5149-------squared error: 3.9131 parameter: [18.398       0.6815269  -1.9529777
1 -0.16360429]
Round5150-------squared error: 3.9131 parameter: [18.398       0.6815201  -1.9529838
7 -0.16360326]
Round5151-------squared error: 3.9131 parameter: [18.398       0.6815133  -1.9529900
2 -0.16360222]
Round5152-------squared error: 3.9131 parameter: [18.398       0.68150652 -1.9529961
7 -0.16360118]
```

```
Round5153-------squared error: 3.9131 parameter: [18.398       0.68149973 -1.9530023
1 -0.16360015]
Round5154-------squared error: 3.9131 parameter: [18.398       0.68149296 -1.9530084
4 -0.16359911]
Round5155-------squared error: 3.9131 parameter: [18.398       0.68148619 -1.9530145
7 -0.16359808]
Round5156-------squared error: 3.9131 parameter: [18.398       0.68147943 -1.9530206
9 -0.16359705]
Round5157-------squared error: 3.9131 parameter: [18.398       0.68147267 -1.9530268
1 -0.16359602]
Round5158-------squared error: 3.9131 parameter: [18.398       0.68146592 -1.9530329
2 -0.16359499]
Round5159-------squared error: 3.9131 parameter: [18.398       0.68145918 -1.9530390
3 -0.16359396]
Round5160-------squared error: 3.9131 parameter: [18.398       0.68145245 -1.9530451
3 -0.16359293]
Round5161-------squared error: 3.9131 parameter: [18.398       0.68144572 -1.9530512
2 -0.16359191]
Round5162-------squared error: 3.9131 parameter: [18.398       0.68143899 -1.9530573
1 -0.16359088]
Round5163-------squared error: 3.9131 parameter: [18.398       0.68143228 -1.9530633
9 -0.16358985]
Round5164-------squared error: 3.9131 parameter: [18.398       0.68142557 -1.9530694
6 -0.16358883]
Round5165-------squared error: 3.9131 parameter: [18.398       0.68141886 -1.9530755
3 -0.16358781]
Round5166-------squared error: 3.9131 parameter: [18.398       0.68141217 -1.9530816
-0.16358679]
Round5167-------squared error: 3.9131 parameter: [18.398       0.68140548 -1.9530876
5 -0.16358576]
Round5168-------squared error: 3.9131 parameter: [18.398       0.68139879 -1.9530937
1 -0.16358474]
Round5169-------squared error: 3.9131 parameter: [18.398       0.68139211 -1.9530997
5 -0.16358373]
Round5170-------squared error: 3.9131 parameter: [18.398       0.68138544 -1.9531057
9 -0.16358271]
Round5171-------squared error: 3.9131 parameter: [18.398       0.68137878 -1.9531118
3 -0.16358169]
Round5172-------squared error: 3.9131 parameter: [18.398       0.68137212 -1.9531178
6 -0.16358067]
Round5173-------squared error: 3.9131 parameter: [18.398       0.68136547 -1.9531238
8 -0.16357966]
Round5174-------squared error: 3.9131 parameter: [18.398       0.68135882 -1.9531299
-0.16357865]
Round5175-------squared error: 3.9131 parameter: [18.398       0.68135218 -1.9531359
1 -0.16357763]
Round5176-------squared error: 3.9131 parameter: [18.398       0.68134555 -1.9531419
1 -0.16357662]
Round5177-------squared error: 3.9131 parameter: [18.398       0.68133892 -1.9531479
1 -0.16357561]
Round5178-------squared error: 3.9131 parameter: [18.398       0.6813323  -1.9531539
1 -0.1635746 ]
Round5179-------squared error: 3.9131 parameter: [18.398       0.68132569 -1.9531599
-0.16357359]
Round5180-------squared error: 3.9131 parameter: [18.398       0.68131908 -1.9531658
8 -0.16357258]
Round5181-------squared error: 3.9131 parameter: [18.398       0.68131248 -1.9531718
6 -0.16357157]
Round5182-------squared error: 3.9131 parameter: [18.398       0.68130589 -1.9531778
3 -0.16357057]
Round5183-------squared error: 3.9131 parameter: [18.398       0.6812993  -1.9531837
9 -0.16356956]
Round5184-------squared error: 3.9131 parameter: [18.398       0.68129271 -1.9531897
5 -0.16356856]
```

```
Round5185-------squared error: 3.9131 parameter: [18.398       0.68128614 -1.9531957
1 -0.16356755]
Round5186-------squared error: 3.9131 parameter: [18.398       0.68127957 -1.9532016
5 -0.16356655]
Round5187-------squared error: 3.9131 parameter: [18.398       0.68127301 -1.9532076
-0.16356555]
Round5188-------squared error: 3.9131 parameter: [18.398       0.68126645 -1.9532135
3 -0.16356455]
Round5189-------squared error: 3.9131 parameter: [18.398       0.6812599  -1.9532194
6 -0.16356355]
Round5190-------squared error: 3.9131 parameter: [18.398       0.68125336 -1.9532253
9 -0.16356255]
Round5191-------squared error: 3.9131 parameter: [18.398       0.68124682 -1.9532313
1 -0.16356155]
Round5192-------squared error: 3.9131 parameter: [18.398       0.68124029 -1.9532372
2 -0.16356056]
Round5193-------squared error: 3.9131 parameter: [18.398       0.68123376 -1.9532431
3 -0.16355956]
Round5194-------squared error: 3.9131 parameter: [18.398       0.68122724 -1.9532490
3 -0.16355857]
Round5195-------squared error: 3.9131 parameter: [18.398       0.68122073 -1.9532549
3 -0.16355757]
Round5196-------squared error: 3.9131 parameter: [18.398       0.68121422 -1.9532608
2 -0.16355658]
Round5197-------squared error: 3.9131 parameter: [18.398       0.68120772 -1.9532667
1 -0.16355559]
Round5198-------squared error: 3.9131 parameter: [18.398       0.68120123 -1.9532725
9 -0.1635546 ]
Round5199-------squared error: 3.9131 parameter: [18.398       0.68119474 -1.9532784
6 -0.16355361]
Round5200-------squared error: 3.9131 parameter: [18.398       0.68118826 -1.9532843
3 -0.16355262]
Round5201-------squared error: 3.9131 parameter: [18.398       0.68118179 -1.9532901
9 -0.16355163]
Round5202-------squared error: 3.9131 parameter: [18.398       0.68117532 -1.9532960
5 -0.16355064]
Round5203-------squared error: 3.9131 parameter: [18.398       0.68116885 -1.9533019
-0.16354966]
Round5204-------squared error: 3.9131 parameter: [18.398       0.6811624  -1.9533077
5 -0.16354867]
Round5205-------squared error: 3.9131 parameter: [18.398       0.68115595 -1.9533135
9 -0.16354769]
Round5206-------squared error: 3.9131 parameter: [18.398       0.6811495  -1.9533194
2 -0.1635467 ]
Round5207-------squared error: 3.9131 parameter: [18.398       0.68114307 -1.9533252
5 -0.16354572]
Round5208-------squared error: 3.9131 parameter: [18.398       0.68113663 -1.9533310
7 -0.16354474]
Round5209-------squared error: 3.9131 parameter: [18.398       0.68113021 -1.9533368
9 -0.16354376]
Round5210-------squared error: 3.9131 parameter: [18.398       0.68112379 -1.9533427
-0.16354278]
Round5211-------squared error: 3.9131 parameter: [18.398       0.68111738 -1.9533485
1 -0.1635418 ]
Round5212-------squared error: 3.9131 parameter: [18.398       0.68111097 -1.9533543
1 -0.16354082]
Round5213-------squared error: 3.9131 parameter: [18.398       0.68110457 -1.9533601
1 -0.16353985]
Round5214-------squared error: 3.9131 parameter: [18.398       0.68109817 -1.9533659
-0.16353887]
Round5215-------squared error: 3.9131 parameter: [18.398       0.68109179 -1.9533716
8 -0.1635379 ]
Round5216-------squared error: 3.9131 parameter: [18.398       0.6810854  -1.9533774
6 -0.16353692]
```

```
Round5217-------squared error: 3.9131 parameter: [18.398       0.68107903 -1.9533832
3 -0.16353595]
Round5218-------squared error: 3.9131 parameter: [18.398       0.68107266 -1.953389
-0.16353498]
Round5219-------squared error: 3.9131 parameter: [18.398       0.68106629 -1.9533947
6 -0.16353401]
Round5220-------squared error: 3.9131 parameter: [18.398       0.68105994 -1.9534005
2 -0.16353304]
Round5221-------squared error: 3.9131 parameter: [18.398       0.68105359 -1.9534062
7 -0.16353207]
Round5222-------squared error: 3.9131 parameter: [18.398       0.68104724 -1.9534120
1 -0.1635311 ]
Round5223-------squared error: 3.9131 parameter: [18.398       0.6810409  -1.9534177
5 -0.16353013]
Round5224-------squared error: 3.9131 parameter: [18.398       0.68103457 -1.9534234
9 -0.16352916]
Round5225-------squared error: 3.9131 parameter: [18.398       0.68102824 -1.9534292
2 -0.1635282 ]
Round5226-------squared error: 3.9131 parameter: [18.398       0.68102192 -1.9534349
4 -0.16352723]
Round5227-------squared error: 3.9131 parameter: [18.398       0.6810156  -1.9534406
6 -0.16352627]
Round5228-------squared error: 3.9131 parameter: [18.398       0.6810093  -1.9534463
7 -0.16352531]
Round5229-------squared error: 3.9131 parameter: [18.398       0.68100299 -1.9534520
8 -0.16352435]
Round5230-------squared error: 3.9131 parameter: [18.398       0.6809967  -1.9534577
8 -0.16352338]
Round5231-------squared error: 3.9131 parameter: [18.398       0.68099041 -1.9534634
7 -0.16352242]
Round5232-------squared error: 3.9131 parameter: [18.398       0.68098412 -1.9534691
6 -0.16352147]
Round5233-------squared error: 3.9131 parameter: [18.398       0.68097784 -1.9534748
5 -0.16352051]
Round5234-------squared error: 3.9131 parameter: [18.398       0.68097157 -1.9534805
3 -0.16351955]
Round5235-------squared error: 3.9131 parameter: [18.398       0.6809653  -1.9534862
-0.16351859]
Round5236-------squared error: 3.9131 parameter: [18.398       0.68095904 -1.9534918
7 -0.16351764]
Round5237-------squared error: 3.9131 parameter: [18.398       0.68095279 -1.9534975
3 -0.16351668]
Round5238-------squared error: 3.9131 parameter: [18.398       0.68094654 -1.9535031
9 -0.16351573]
Round5239-------squared error: 3.9131 parameter: [18.398       0.6809403  -1.9535088
4 -0.16351478]
Round5240-------squared error: 3.9131 parameter: [18.398       0.68093406 -1.9535144
9 -0.16351383]
Round5241-------squared error: 3.9131 parameter: [18.398       0.68092783 -1.9535201
3 -0.16351287]
Round5242-------squared error: 3.9131 parameter: [18.398       0.68092161 -1.9535257
7 -0.16351192]
Round5243-------squared error: 3.9131 parameter: [18.398       0.68091539 -1.9535314
-0.16351098]
Round5244-------squared error: 3.9131 parameter: [18.398       0.68090918 -1.9535370
2 -0.16351003]
Round5245-------squared error: 3.9131 parameter: [18.398       0.68090297 -1.9535426
4 -0.16350908]
Round5246-------squared error: 3.9131 parameter: [18.398       0.68089677 -1.9535482
5 -0.16350813]
Round5247-------squared error: 3.9131 parameter: [18.398       0.68089057 -1.9535538
6 -0.16350719]
Round5248-------squared error: 3.9131 parameter: [18.398       0.68088439 -1.9535594
7 -0.16350624]
```

```
Round5249-------squared error: 3.9131 parameter: [18.398       0.6808782  -1.9535650
6 -0.1635053 ]
Round5250-------squared error: 3.9131 parameter: [18.398       0.68087203 -1.9535706
6 -0.16350436]
Round5251-------squared error: 3.9131 parameter: [18.398       0.68086586 -1.9535762
4 -0.16350342]
Round5252-------squared error: 3.9131 parameter: [18.398       0.68085969 -1.9535818
2 -0.16350248]
Round5253-------squared error: 3.9131 parameter: [18.398       0.68085353 -1.9535874
-0.16350154]
Round5254-------squared error: 3.9131 parameter: [18.398       0.68084738 -1.9535929
7 -0.1635006 ]
Round5255-------squared error: 3.9131 parameter: [18.398       0.68084123 -1.9535985
4 -0.16349966]
Round5256-------squared error: 3.9131 parameter: [18.398       0.68083509 -1.9536041
-0.16349872]
Round5257-------squared error: 3.9131 parameter: [18.398       0.68082896 -1.9536096
5 -0.16349778]
Round5258-------squared error: 3.9131 parameter: [18.398       0.68082283 -1.9536152
-0.16349685]
Round5259-------squared error: 3.9131 parameter: [18.398       0.68081671 -1.9536207
5 -0.16349591]
Round5260-------squared error: 3.9131 parameter: [18.398       0.68081059 -1.9536262
8 -0.16349498]
Round5261-------squared error: 3.9131 parameter: [18.398       0.68080448 -1.9536318
2 -0.16349405]
Round5262-------squared error: 3.9131 parameter: [18.398       0.68079837 -1.9536373
5 -0.16349312]
Round5263-------squared error: 3.9131 parameter: [18.398       0.68079227 -1.9536428
7 -0.16349219]
Round5264-------squared error: 3.9131 parameter: [18.398       0.68078618 -1.9536483
9 -0.16349126]
Round5265-------squared error: 3.9131 parameter: [18.398       0.68078009 -1.9536539
-0.16349033]
Round5266-------squared error: 3.9131 parameter: [18.398       0.68077401 -1.9536594
1 -0.1634894 ]
Round5267-------squared error: 3.9131 parameter: [18.398       0.68076793 -1.9536649
1 -0.16348847]
Round5268-------squared error: 3.9131 parameter: [18.398       0.68076186 -1.9536704
-0.16348754]
Round5269-------squared error: 3.9131 parameter: [18.398       0.6807558  -1.9536758
9 -0.16348662]
Round5270-------squared error: 3.9131 parameter: [18.398       0.68074974 -1.9536813
8 -0.16348569]
Round5271-------squared error: 3.9131 parameter: [18.398       0.68074368 -1.9536868
6 -0.16348477]
Round5272-------squared error: 3.9131 parameter: [18.398       0.68073764 -1.9536923
4 -0.16348385]
Round5273-------squared error: 3.9131 parameter: [18.398       0.6807316  -1.9536978
-0.16348293]
Round5274-------squared error: 3.9131 parameter: [18.398       0.68072556 -1.9537032
7 -0.163482  ]
Round5275-------squared error: 3.9131 parameter: [18.398       0.68071953 -1.9537087
3 -0.16348108]
Round5276-------squared error: 3.9131 parameter: [18.398       0.68071351 -1.9537141
8 -0.16348016]
Round5277-------squared error: 3.9131 parameter: [18.398       0.68070749 -1.9537196
3 -0.16347925]
Round5278-------squared error: 3.9131 parameter: [18.398       0.68070148 -1.9537250
7 -0.16347833]
Round5279-------squared error: 3.9131 parameter: [18.398       0.68069547 -1.9537305
1 -0.16347741]
Round5280-------squared error: 3.9131 parameter: [18.398       0.68068947 -1.9537359
5 -0.1634765 ]
```

```
Round5281-------squared error: 3.9131 parameter: [18.398       0.68068348 -1.9537413
7 -0.16347558]
Round5282-------squared error: 3.9131 parameter: [18.398       0.68067749 -1.9537468
-0.16347467]
Round5283-------squared error: 3.9131 parameter: [18.398       0.6806715  -1.9537522
1 -0.16347375]
Round5284-------squared error: 3.9131 parameter: [18.398       0.68066553 -1.9537576
3 -0.16347284]
Round5285-------squared error: 3.9131 parameter: [18.398       0.68065955 -1.9537630
3 -0.16347193]
Round5286-------squared error: 3.9131 parameter: [18.398       0.68065359 -1.9537684
3 -0.16347102]
Round5287-------squared error: 3.9131 parameter: [18.398       0.68064763 -1.9537738
3 -0.16347011]
Round5288-------squared error: 3.9131 parameter: [18.398       0.68064167 -1.9537792
2 -0.1634692 ]
Round5289-------squared error: 3.9131 parameter: [18.398       0.68063572 -1.9537846
1 -0.16346829]
Round5290-------squared error: 3.9131 parameter: [18.398       0.68062978 -1.9537899
9 -0.16346739]
Round5291-------squared error: 3.9131 parameter: [18.398       0.68062384 -1.9537953
7 -0.16346648]
Round5292-------squared error: 3.9131 parameter: [18.398       0.68061791 -1.9538007
4 -0.16346557]
Round5293-------squared error: 3.9131 parameter: [18.398       0.68061199 -1.9538061
-0.16346467]
Round5294-------squared error: 3.9131 parameter: [18.398       0.68060607 -1.9538114
6 -0.16346377]
Round5295-------squared error: 3.9131 parameter: [18.398       0.68060015 -1.9538168
2 -0.16346286]
Round5296-------squared error: 3.9131 parameter: [18.398       0.68059424 -1.9538221
7 -0.16346196]
Round5297-------squared error: 3.9131 parameter: [18.398       0.68058834 -1.9538275
1 -0.16346106]
Round5298-------squared error: 3.9131 parameter: [18.398       0.68058244 -1.9538328
5 -0.16346016]
Round5299-------squared error: 3.9131 parameter: [18.398       0.68057655 -1.9538381
9 -0.16345926]
Round5300-------squared error: 3.9131 parameter: [18.398       0.68057067 -1.9538435
1 -0.16345836]
Round5301-------squared error: 3.9131 parameter: [18.398       0.68056478 -1.9538488
4 -0.16345747]
Round5302-------squared error: 3.9131 parameter: [18.398       0.68055891 -1.9538541
6 -0.16345657]
Round5303-------squared error: 3.9131 parameter: [18.398       0.68055304 -1.9538594
7 -0.16345567]
Round5304-------squared error: 3.9131 parameter: [18.398       0.68054718 -1.9538647
8 -0.16345478]
Round5305-------squared error: 3.9131 parameter: [18.398       0.68054132 -1.9538700
8 -0.16345388]
Round5306-------squared error: 3.9131 parameter: [18.398       0.68053547 -1.9538753
8 -0.16345299]
Round5307-------squared error: 3.9131 parameter: [18.398       0.68052962 -1.9538806
8 -0.1634521 ]
Round5308-------squared error: 3.9131 parameter: [18.398       0.68052378 -1.9538859
7 -0.16345121]
Round5309-------squared error: 3.9131 parameter: [18.398       0.68051794 -1.9538912
5 -0.16345032]
Round5310-------squared error: 3.9131 parameter: [18.398       0.68051212 -1.9538965
3 -0.16344943]
Round5311-------squared error: 3.9131 parameter: [18.398       0.68050629 -1.9539018
-0.16344854]
Round5312-------squared error: 3.9131 parameter: [18.398       0.68050047 -1.9539070
7 -0.16344765]
```

```
Round5313-------squared error: 3.9131 parameter: [18.398       0.68049466 -1.9539123
3 -0.16344676]
Round5314-------squared error: 3.9131 parameter: [18.398       0.68048885 -1.9539175
9 -0.16344588]
Round5315-------squared error: 3.9131 parameter: [18.398       0.68048305 -1.9539228
4 -0.16344499]
Round5316-------squared error: 3.9131 parameter: [18.398       0.68047725 -1.9539280
9 -0.16344411]
Round5317-------squared error: 3.9131 parameter: [18.398       0.68047146 -1.9539333
3 -0.16344322]
Round5318-------squared error: 3.9131 parameter: [18.398       0.68046568 -1.9539385
7 -0.16344234]
Round5319-------squared error: 3.9131 parameter: [18.398       0.6804599  -1.9539438
-0.16344146]
Round5320-------squared error: 3.9131 parameter: [18.398       0.68045413 -1.9539490
3 -0.16344058]
Round5321-------squared error: 3.9131 parameter: [18.398       0.68044836 -1.9539542
5 -0.1634397 ]
Round5322-------squared error: 3.9131 parameter: [18.398       0.6804426  -1.9539594
7 -0.16343882]
Round5323-------squared error: 3.9131 parameter: [18.398       0.68043684 -1.9539646
8 -0.16343794]
Round5324-------squared error: 3.9131 parameter: [18.398       0.68043109 -1.9539698
9 -0.16343706]
Round5325-------squared error: 3.9131 parameter: [18.398       0.68042534 -1.9539750
9 -0.16343618]
Round5326-------squared error: 3.9131 parameter: [18.398       0.6804196  -1.9539802
9 -0.16343531]
Round5327-------squared error: 3.9131 parameter: [18.398       0.68041387 -1.9539854
8 -0.16343443]
Round5328-------squared error: 3.9131 parameter: [18.398       0.68040814 -1.9539906
7 -0.16343356]
Round5329-------squared error: 3.9131 parameter: [18.398       0.68040241 -1.9539958
5 -0.16343268]
Round5330-------squared error: 3.9131 parameter: [18.398       0.68039669 -1.9540010
3 -0.16343181]
Round5331-------squared error: 3.9131 parameter: [18.398       0.68039098 -1.9540062
-0.16343094]
Round5332-------squared error: 3.9131 parameter: [18.398       0.68038527 -1.9540113
7 -0.16343007]
Round5333-------squared error: 3.9131 parameter: [18.398       0.68037957 -1.9540165
3 -0.1634292 ]
Round5334-------squared error: 3.9131 parameter: [18.398       0.68037388 -1.9540216
9 -0.16342833]
Round5335-------squared error: 3.9131 parameter: [18.398       0.68036818 -1.9540268
4 -0.16342746]
Round5336-------squared error: 3.9131 parameter: [18.398       0.6803625  -1.9540319
9 -0.16342659]
Round5337-------squared error: 3.9131 parameter: [18.398       0.68035682 -1.9540371
3 -0.16342572]
Round5338-------squared error: 3.9131 parameter: [18.398       0.68035114 -1.9540422
7 -0.16342486]
Round5339-------squared error: 3.9131 parameter: [18.398       0.68034548 -1.9540474
-0.16342399]
Round5340-------squared error: 3.9131 parameter: [18.398       0.68033981 -1.9540525
3 -0.16342313]
Round5341-------squared error: 3.9131 parameter: [18.398       0.68033415 -1.9540576
5 -0.16342226]
Round5342-------squared error: 3.9131 parameter: [18.398       0.6803285  -1.9540627
7 -0.1634214 ]
Round5343-------squared error: 3.9131 parameter: [18.398       0.68032285 -1.9540678
9 -0.16342054]
Round5344-------squared error: 3.9131 parameter: [18.398       0.68031721 -1.9540729
9 -0.16341968]
```

```
Round5345-------squared error: 3.9131 parameter: [18.398       0.68031158 -1.9540781
-0.16341882]
Round5346-------squared error: 3.9131 parameter: [18.398       0.68030594 -1.9540831
9 -0.16341796]
Round5347-------squared error: 3.9131 parameter: [18.398       0.68030032 -1.9540882
9 -0.1634171 ]
Round5348-------squared error: 3.9131 parameter: [18.398       0.6802947  -1.9540933
8 -0.16341624]
Round5349-------squared error: 3.9131 parameter: [18.398       0.68028908 -1.9540984
6 -0.16341538]
Round5350-------squared error: 3.9131 parameter: [18.398       0.68028347 -1.9541035
4 -0.16341453]
Round5351-------squared error: 3.9131 parameter: [18.398       0.68027787 -1.9541086
1 -0.16341367]
Round5352-------squared error: 3.9131 parameter: [18.398       0.68027227 -1.9541136
8 -0.16341282]
Round5353-------squared error: 3.9131 parameter: [18.398       0.68026668 -1.9541187
5 -0.16341196]
Round5354-------squared error: 3.9131 parameter: [18.398       0.68026109 -1.9541238
-0.16341111]
Round5355-------squared error: 3.9131 parameter: [18.398       0.68025551 -1.9541288
6 -0.16341026]
Round5356-------squared error: 3.9131 parameter: [18.398       0.68024993 -1.9541339
1 -0.16340941]
Round5357-------squared error: 3.9131 parameter: [18.398       0.68024436 -1.9541389
5 -0.16340856]
Round5358-------squared error: 3.9131 parameter: [18.398       0.68023879 -1.9541439
9 -0.16340771]
Round5359-------squared error: 3.9131 parameter: [18.398       0.68023323 -1.9541490
3 -0.16340686]
Round5360-------squared error: 3.9131 parameter: [18.398       0.68022768 -1.9541540
6 -0.16340601]
Round5361-------squared error: 3.9131 parameter: [18.398       0.68022213 -1.9541590
8 -0.16340516]
Round5362-------squared error: 3.9131 parameter: [18.398       0.68021658 -1.9541641
-0.16340432]
Round5363-------squared error: 3.9131 parameter: [18.398       0.68021104 -1.9541691
2 -0.16340347]
Round5364-------squared error: 3.9131 parameter: [18.398       0.68020551 -1.9541741
3 -0.16340263]
Round5365-------squared error: 3.9131 parameter: [18.398       0.68019998 -1.9541791
3 -0.16340178]
Round5366-------squared error: 3.9131 parameter: [18.398       0.68019446 -1.9541841
4 -0.16340094]
Round5367-------squared error: 3.9131 parameter: [18.398       0.68018894 -1.9541891
3 -0.1634001 ]
Round5368-------squared error: 3.9131 parameter: [18.398       0.68018343 -1.9541941
2 -0.16339926]
Round5369-------squared error: 3.9131 parameter: [18.398       0.68017792 -1.9541991
1 -0.16339842]
Round5370-------squared error: 3.9131 parameter: [18.398       0.68017242 -1.9542040
9 -0.16339758]
Round5371-------squared error: 3.9131 parameter: [18.398       0.68016692 -1.9542090
7 -0.16339674]
Round5372-------squared error: 3.9131 parameter: [18.398       0.68016143 -1.9542140
4 -0.1633959 ]
Round5373-------squared error: 3.9131 parameter: [18.398       0.68015594 -1.9542190
1 -0.16339506]
Round5374-------squared error: 3.9131 parameter: [18.398       0.68015046 -1.9542239
7 -0.16339422]
Round5375-------squared error: 3.9131 parameter: [18.398       0.68014498 -1.9542289
3 -0.16339339]
Round5376-------squared error: 3.9131 parameter: [18.398       0.68013951 -1.9542338
8 -0.16339255]
```

```
Round5377-------squared error: 3.9131 parameter: [18.398       0.68013405 -1.9542388
3 -0.16339172]
Round5378-------squared error: 3.9131 parameter: [18.398       0.68012859 -1.9542437
7 -0.16339089]
Round5379-------squared error: 3.9131 parameter: [18.398       0.68012313 -1.9542487
1 -0.16339005]
Round5380-------squared error: 3.9131 parameter: [18.398       0.68011768 -1.9542536
5 -0.16338922]
Round5381-------squared error: 3.9131 parameter: [18.398       0.68011224 -1.9542585
7 -0.16338839]
Round5382-------squared error: 3.9131 parameter: [18.398       0.6801068  -1.9542635
-0.16338756]
Round5383-------squared error: 3.9131 parameter: [18.398       0.68010137 -1.9542684
2 -0.16338673]
Round5384-------squared error: 3.9131 parameter: [18.398       0.68009594 -1.9542733
3 -0.1633859 ]
Round5385-------squared error: 3.9131 parameter: [18.398       0.68009052 -1.9542782
4 -0.16338507]
Round5386-------squared error: 3.9131 parameter: [18.398       0.6800851  -1.9542831
5 -0.16338425]
Round5387-------squared error: 3.9131 parameter: [18.398       0.68007968 -1.9542880
5 -0.16338342]
Round5388-------squared error: 3.9131 parameter: [18.398       0.68007428 -1.9542929
5 -0.16338259]
Round5389-------squared error: 3.9131 parameter: [18.398       0.68006887 -1.9542978
4 -0.16338177]
Round5390-------squared error: 3.9131 parameter: [18.398       0.68006348 -1.9543027
2 -0.16338095]
Round5391-------squared error: 3.9131 parameter: [18.398       0.68005809 -1.9543076
1 -0.16338012]
Round5392-------squared error: 3.9131 parameter: [18.398       0.6800527  -1.9543124
8 -0.1633793 ]
Round5393-------squared error: 3.9131 parameter: [18.398       0.68004732 -1.9543173
6 -0.16337848]
Round5394-------squared error: 3.9131 parameter: [18.398       0.68004194 -1.9543222
2 -0.16337766]
Round5395-------squared error: 3.9131 parameter: [18.398       0.68003657 -1.9543270
9 -0.16337684]
Round5396-------squared error: 3.9131 parameter: [18.398       0.6800312  -1.9543319
5 -0.16337602]
Round5397-------squared error: 3.9131 parameter: [18.398       0.68002584 -1.9543368
-0.1633752 ]
Round5398-------squared error: 3.9131 parameter: [18.398       0.68002049 -1.9543416
5 -0.16337438]
Round5399-------squared error: 3.9131 parameter: [18.398       0.68001514 -1.9543464
9 -0.16337357]
Round5400-------squared error: 3.9131 parameter: [18.398       0.68000979 -1.9543513
3 -0.16337275]
Round5401-------squared error: 3.9131 parameter: [18.398       0.68000445 -1.9543561
7 -0.16337194]
Round5402-------squared error: 3.9131 parameter: [18.398       0.67999911 -1.954361
-0.16337112]
Round5403-------squared error: 3.9131 parameter: [18.398       0.67999378 -1.9543658
2 -0.16337031]
Round5404-------squared error: 3.9131 parameter: [18.398       0.67998846 -1.9543706
5 -0.16336949]
Round5405-------squared error: 3.9131 parameter: [18.398       0.67998314 -1.9543754
6 -0.16336868]
Round5406-------squared error: 3.9131 parameter: [18.398       0.67997782 -1.9543802
7 -0.16336787]
Round5407-------squared error: 3.9131 parameter: [18.398       0.67997252 -1.9543850
8 -0.16336706]
Round5408-------squared error: 3.9131 parameter: [18.398       0.67996721 -1.9543898
8 -0.16336625]
```

```
Round5409-------squared error: 3.9131 parameter: [18.398       0.67996191 -1.9543946
8 -0.16336544]
Round5410-------squared error: 3.9131 parameter: [18.398       0.67995662 -1.9543994
7 -0.16336463]
Round5411-------squared error: 3.9131 parameter: [18.398       0.67995133 -1.9544042
6 -0.16336383]
Round5412-------squared error: 3.9131 parameter: [18.398       0.67994604 -1.9544090
5 -0.16336302]
Round5413-------squared error: 3.9131 parameter: [18.398       0.67994077 -1.9544138
3 -0.16336221]
Round5414-------squared error: 3.9131 parameter: [18.398       0.67993549 -1.9544186
-0.16336141]
Round5415-------squared error: 3.9131 parameter: [18.398       0.67993022 -1.9544233
7 -0.1633606 ]
Round5416-------squared error: 3.9131 parameter: [18.398       0.67992496 -1.9544281
4 -0.1633598 ]
Round5417-------squared error: 3.9131 parameter: [18.398      0.6799197 -1.9544329 -
0.163359 ]
Round5418-------squared error: 3.9131 parameter: [18.398       0.67991445 -1.9544376
6 -0.1633582 ]
Round5419-------squared error: 3.9131 parameter: [18.398       0.6799092  -1.9544424
1 -0.16335739]
Round5420-------squared error: 3.9131 parameter: [18.398       0.67990395 -1.9544471
6 -0.16335659]
Round5421-------squared error: 3.9131 parameter: [18.398       0.67989872 -1.9544519
-0.16335579]
Round5422-------squared error: 3.9131 parameter: [18.398       0.67989348 -1.9544566
4 -0.163355  ]
Round5423-------squared error: 3.9131 parameter: [18.398       0.67988825 -1.9544613
7 -0.1633542 ]
Round5424-------squared error: 3.9131 parameter: [18.398       0.67988303 -1.9544661
-0.1633534 ]
Round5425-------squared error: 3.9131 parameter: [18.398       0.67987781 -1.9544708
2 -0.1633526 ]
Round5426-------squared error: 3.9131 parameter: [18.398       0.6798726  -1.9544755
4 -0.16335181]
Round5427-------squared error: 3.9131 parameter: [18.398       0.67986739 -1.9544802
6 -0.16335101]
Round5428-------squared error: 3.9131 parameter: [18.398       0.67986219 -1.9544849
7 -0.16335022]
Round5429-------squared error: 3.9131 parameter: [18.398       0.67985699 -1.9544896
8 -0.16334942]
Round5430-------squared error: 3.9131 parameter: [18.398       0.6798518  -1.9544943
8 -0.16334863]
Round5431-------squared error: 3.9131 parameter: [18.398       0.67984661 -1.9544990
8 -0.16334784]
Round5432-------squared error: 3.9131 parameter: [18.398       0.67984142 -1.9545037
7 -0.16334705]
Round5433-------squared error: 3.9131 parameter: [18.398       0.67983625 -1.9545084
6 -0.16334626]
Round5434-------squared error: 3.9131 parameter: [18.398       0.67983107 -1.9545131
4 -0.16334547]
Round5435-------squared error: 3.9131 parameter: [18.398       0.67982591 -1.9545178
2 -0.16334468]
Round5436-------squared error: 3.9131 parameter: [18.398       0.67982074 -1.9545224
9 -0.16334389]
Round5437-------squared error: 3.9131 parameter: [18.398       0.67981558 -1.9545271
7 -0.1633431 ]
Round5438-------squared error: 3.9131 parameter: [18.398       0.67981043 -1.9545318
3 -0.16334232]
Round5439-------squared error: 3.9131 parameter: [18.398       0.67980528 -1.9545364
9 -0.16334153]
Round5440-------squared error: 3.9131 parameter: [18.398       0.67980014 -1.9545411
5 -0.16334075]
```

```
Round5441-------squared error: 3.9131 parameter: [18.398       0.679795   -1.9545458
-0.16333996]
Round5442-------squared error: 3.9131 parameter: [18.398       0.67978987 -1.9545504
5 -0.16333918]
Round5443-------squared error: 3.9131 parameter: [18.398       0.67978474 -1.9545550
9 -0.16333839]
Round5444-------squared error: 3.9131 parameter: [18.398       0.67977961 -1.9545597
3 -0.16333761]
Round5445-------squared error: 3.9131 parameter: [18.398       0.6797745  -1.9545643
7 -0.16333683]
Round5446-------squared error: 3.9131 parameter: [18.398       0.67976938 -1.954569
-0.16333605]
Round5447-------squared error: 3.9131 parameter: [18.398       0.67976427 -1.9545736
2 -0.16333527]
Round5448-------squared error: 3.9131 parameter: [18.398       0.67975917 -1.9545782
4 -0.16333449]
Round5449-------squared error: 3.9131 parameter: [18.398       0.67975407 -1.9545828
6 -0.16333371]
Round5450-------squared error: 3.9131 parameter: [18.398       0.67974898 -1.9545874
7 -0.16333294]
Round5451-------squared error: 3.9131 parameter: [18.398       0.67974389 -1.9545920
8 -0.16333216]
Round5452-------squared error: 3.9131 parameter: [18.398       0.6797388  -1.9545966
8 -0.16333138]
Round5453-------squared error: 3.9131 parameter: [18.398       0.67973372 -1.9546012
8 -0.16333061]
Round5454-------squared error: 3.9131 parameter: [18.398       0.67972865 -1.9546058
8 -0.16332983]
Round5455-------squared error: 3.9131 parameter: [18.398       0.67972358 -1.9546104
7 -0.16332906]
Round5456-------squared error: 3.9131 parameter: [18.398       0.67971851 -1.9546150
5 -0.16332828]
Round5457-------squared error: 3.9131 parameter: [18.398       0.67971345 -1.9546196
3 -0.16332751]
Round5458-------squared error: 3.9131 parameter: [18.398       0.6797084  -1.9546242
1 -0.16332674]
Round5459-------squared error: 3.9131 parameter: [18.398       0.67970335 -1.9546287
8 -0.16332597]
Round5460-------squared error: 3.9131 parameter: [18.398       0.6796983  -1.9546333
5 -0.1633252 ]
Round5461-------squared error: 3.9131 parameter: [18.398       0.67969326 -1.9546379
1 -0.16332443]
Round5462-------squared error: 3.9131 parameter: [18.398       0.67968823 -1.9546424
7 -0.16332366]
Round5463-------squared error: 3.9131 parameter: [18.398       0.6796832  -1.9546470
3 -0.16332289]
Round5464-------squared error: 3.9131 parameter: [18.398       0.67967817 -1.9546515
8 -0.16332213]
Round5465-------squared error: 3.9131 parameter: [18.398       0.67967315 -1.9546561
2 -0.16332136]
Round5466-------squared error: 3.9131 parameter: [18.398       0.67966813 -1.9546606
6 -0.16332059]
Round5467-------squared error: 3.9131 parameter: [18.398       0.67966312 -1.9546652
-0.16331983]
Round5468-------squared error: 3.9131 parameter: [18.398       0.67965812 -1.9546697
3 -0.16331906]
Round5469-------squared error: 3.9131 parameter: [18.398       0.67965311 -1.9546742
6 -0.1633183 ]
Round5470-------squared error: 3.9131 parameter: [18.398       0.67964812 -1.9546787
9 -0.16331754]
Round5471-------squared error: 3.9131 parameter: [18.398       0.67964313 -1.9546833
1 -0.16331678]
Round5472-------squared error: 3.9131 parameter: [18.398       0.67963814 -1.9546878
2 -0.16331601]
```

```
Round5473-------squared error: 3.9131 parameter: [18.398       0.67963316 -1.9546923
3 -0.16331525]
Round5474-------squared error: 3.9131 parameter: [18.398       0.67962818 -1.9546968
4 -0.16331449]
Round5475-------squared error: 3.9131 parameter: [18.398       0.6796232  -1.9547013
4 -0.16331373]
Round5476-------squared error: 3.9131 parameter: [18.398       0.67961824 -1.9547058
4 -0.16331298]
Round5477-------squared error: 3.9131 parameter: [18.398       0.67961327 -1.9547103
3 -0.16331222]
Round5478-------squared error: 3.9131 parameter: [18.398       0.67960831 -1.9547148
2 -0.16331146]
Round5479-------squared error: 3.9131 parameter: [18.398       0.67960336 -1.9547193
1 -0.16331071]
Round5480-------squared error: 3.9131 parameter: [18.398       0.67959841 -1.9547237
9 -0.16330995]
Round5481-------squared error: 3.9131 parameter: [18.398       0.67959347 -1.9547282
7 -0.16330919]
Round5482-------squared error: 3.9131 parameter: [18.398       0.67958853 -1.9547327
4 -0.16330844]
Round5483-------squared error: 3.9131 parameter: [18.398       0.67958359 -1.9547372
1 -0.16330769]
Round5484-------squared error: 3.9131 parameter: [18.398       0.67957866 -1.9547416
7 -0.16330693]
Round5485-------squared error: 3.9131 parameter: [18.398       0.67957374 -1.9547461
3 -0.16330618]
Round5486-------squared error: 3.9131 parameter: [18.398       0.67956882 -1.9547505
8 -0.16330543]
Round5487-------squared error: 3.9131 parameter: [18.398       0.6795639  -1.9547550
3 -0.16330468]
Round5488-------squared error: 3.9131 parameter: [18.398       0.67955899 -1.9547594
8 -0.16330393]
Round5489-------squared error: 3.9131 parameter: [18.398       0.67955408 -1.9547639
2 -0.16330318]
Round5490-------squared error: 3.9131 parameter: [18.398       0.67954918 -1.9547683
6 -0.16330243]
Round5491-------squared error: 3.9131 parameter: [18.398       0.67954429 -1.9547727
9 -0.16330169]
Round5492-------squared error: 3.9131 parameter: [18.398       0.67953939 -1.9547772
2 -0.16330094]
Round5493-------squared error: 3.9131 parameter: [18.398       0.67953451 -1.9547816
5 -0.16330019]
Round5494-------squared error: 3.9131 parameter: [18.398       0.67952962 -1.9547860
7 -0.16329945]
Round5495-------squared error: 3.9131 parameter: [18.398       0.67952475 -1.9547904
8 -0.1632987 ]
Round5496-------squared error: 3.9131 parameter: [18.398       0.67951987 -1.9547949
-0.16329796]
Round5497-------squared error: 3.9131 parameter: [18.398       0.679515   -1.9547993
-0.16329722]
Round5498-------squared error: 3.9131 parameter: [18.398       0.67951014 -1.9548037
1 -0.16329647]
Round5499-------squared error: 3.9131 parameter: [18.398       0.67950528 -1.9548081
1 -0.16329573]
Round5500-------squared error: 3.9131 parameter: [18.398       0.67950043 -1.9548125
-0.16329499]
Round5501-------squared error: 3.9131 parameter: [18.398       0.67949558 -1.9548168
9 -0.16329425]
Round5502-------squared error: 3.9131 parameter: [18.398       0.67949073 -1.9548212
8 -0.16329351]
Round5503-------squared error: 3.9131 parameter: [18.398       0.67948589 -1.9548256
6 -0.16329277]
Round5504-------squared error: 3.9131 parameter: [18.398       0.67948106 -1.9548300
4 -0.16329203]
```

```
Round5505-------squared error: 3.9131 parameter: [18.398       0.67947622 -1.9548344
2 -0.1632913 ]
Round5506-------squared error: 3.9131 parameter: [18.398       0.6794714  -1.9548387
9 -0.16329056]
Round5507-------squared error: 3.9131 parameter: [18.398       0.67946658 -1.9548431
5 -0.16328982]
Round5508-------squared error: 3.9131 parameter: [18.398       0.67946176 -1.9548475
1 -0.16328909]
Round5509-------squared error: 3.9131 parameter: [18.398       0.67945695 -1.9548518
7 -0.16328835]
Round5510-------squared error: 3.9131 parameter: [18.398       0.67945214 -1.9548562
2 -0.16328762]
Round5511-------squared error: 3.9131 parameter: [18.398       0.67944733 -1.9548605
7 -0.16328688]
Round5512-------squared error: 3.9131 parameter: [18.398       0.67944254 -1.9548649
2 -0.16328615]
Round5513-------squared error: 3.9131 parameter: [18.398       0.67943774 -1.9548692
6 -0.16328542]
Round5514-------squared error: 3.9131 parameter: [18.398       0.67943295 -1.9548735
9 -0.16328469]
Round5515-------squared error: 3.9131 parameter: [18.398       0.67942817 -1.9548779
3 -0.16328396]
Round5516-------squared error: 3.9131 parameter: [18.398       0.67942339 -1.9548822
5 -0.16328323]
Round5517-------squared error: 3.9131 parameter: [18.398       0.67941861 -1.9548865
8 -0.1632825 ]
Round5518-------squared error: 3.9131 parameter: [18.398       0.67941384 -1.9548909
-0.16328177]
Round5519-------squared error: 3.9131 parameter: [18.398       0.67940907 -1.9548952
1 -0.16328104]
Round5520-------squared error: 3.9131 parameter: [18.398       0.67940431 -1.9548995
2 -0.16328032]
Round5521-------squared error: 3.9131 parameter: [18.398       0.67939955 -1.9549038
3 -0.16327959]
Round5522-------squared error: 3.9131 parameter: [18.398       0.6793948  -1.9549081
3 -0.16327886]
Round5523-------squared error: 3.9131 parameter: [18.398       0.67939005 -1.9549124
3 -0.16327814]
Round5524-------squared error: 3.9131 parameter: [18.398       0.67938531 -1.9549167
3 -0.16327741]
Round5525-------squared error: 3.9131 parameter: [18.398       0.67938057 -1.9549210
2 -0.16327669]
Round5526-------squared error: 3.9131 parameter: [18.398       0.67937584 -1.9549253
-0.16327597]
Round5527-------squared error: 3.9131 parameter: [18.398       0.67937111 -1.9549295
9 -0.16327525]
Round5528-------squared error: 3.9131 parameter: [18.398       0.67936638 -1.9549338
6 -0.16327453]
Round5529-------squared error: 3.9131 parameter: [18.398       0.67936166 -1.9549381
4 -0.1632738 ]
Round5530-------squared error: 3.9131 parameter: [18.398       0.67935694 -1.9549424
1 -0.16327308]
Round5531-------squared error: 3.9131 parameter: [18.398       0.67935223 -1.9549466
7 -0.16327236]
Round5532-------squared error: 3.9131 parameter: [18.398       0.67934752 -1.9549509
4 -0.16327165]
Round5533-------squared error: 3.9131 parameter: [18.398       0.67934282 -1.9549551
9 -0.16327093]
Round5534-------squared error: 3.9131 parameter: [18.398       0.67933812 -1.9549594
5 -0.16327021]
Round5535-------squared error: 3.9131 parameter: [18.398       0.67933343 -1.9549637
-0.16326949]
Round5536-------squared error: 3.9131 parameter: [18.398       0.67932874 -1.9549679
4 -0.16326878]
```

```
Round5537-------squared error: 3.9131 parameter: [18.398       0.67932406 -1.9549721
8 -0.16326806]
Round5538-------squared error: 3.9131 parameter: [18.398       0.67931938 -1.9549764
2 -0.16326735]
Round5539-------squared error: 3.9131 parameter: [18.398       0.6793147  -1.9549806
5 -0.16326663]
Round5540-------squared error: 3.9131 parameter: [18.398       0.67931003 -1.9549848
8 -0.16326592]
Round5541-------squared error: 3.9131 parameter: [18.398       0.67930536 -1.9549891
1 -0.16326521]
Round5542-------squared error: 3.9131 parameter: [18.398       0.6793007  -1.9549933
3 -0.1632645 ]
Round5543-------squared error: 3.9131 parameter: [18.398       0.67929604 -1.9549975
5 -0.16326379]
Round5544-------squared error: 3.9131 parameter: [18.398       0.67929139 -1.9550017
6 -0.16326308]
Round5545-------squared error: 3.9131 parameter: [18.398       0.67928674 -1.9550059
7 -0.16326237]
Round5546-------squared error: 3.9131 parameter: [18.398       0.6792821  -1.9550101
7 -0.16326166]
Round5547-------squared error: 3.9131 parameter: [18.398       0.67927746 -1.9550143
7 -0.16326095]
Round5548-------squared error: 3.9131 parameter: [18.398       0.67927282 -1.9550185
7 -0.16326024]
Round5549-------squared error: 3.9131 parameter: [18.398       0.67926819 -1.9550227
6 -0.16325953]
Round5550-------squared error: 3.9131 parameter: [18.398       0.67926357 -1.9550269
5 -0.16325883]
Round5551-------squared error: 3.9131 parameter: [18.398       0.67925894 -1.9550311
3 -0.16325812]
Round5552-------squared error: 3.9131 parameter: [18.398       0.67925433 -1.9550353
1 -0.16325742]
Round5553-------squared error: 3.9131 parameter: [18.398       0.67924971 -1.9550394
9 -0.16325671]
Round5554-------squared error: 3.9131 parameter: [18.398       0.67924511 -1.9550436
6 -0.16325601]
Round5555-------squared error: 3.9131 parameter: [18.398       0.6792405  -1.9550478
3 -0.16325531]
Round5556-------squared error: 3.9131 parameter: [18.398      0.6792359 -1.955052  -
0.1632546]
Round5557-------squared error: 3.9131 parameter: [18.398       0.67923131 -1.9550561
6 -0.1632539 ]
Round5558-------squared error: 3.9131 parameter: [18.398       0.67922672 -1.9550603
1 -0.1632532 ]
Round5559-------squared error: 3.9131 parameter: [18.398       0.67922213 -1.9550644
7 -0.1632525 ]
Round5560-------squared error: 3.9131 parameter: [18.398       0.67921755 -1.9550686
1 -0.1632518 ]
Round5561-------squared error: 3.9131 parameter: [18.398       0.67921297 -1.9550727
6 -0.1632511 ]
Round5562-------squared error: 3.9131 parameter: [18.398      0.6792084 -1.9550769 -
0.1632504]
Round5563-------squared error: 3.9131 parameter: [18.398       0.67920383 -1.9550810
3 -0.16324971]
Round5564-------squared error: 3.9131 parameter: [18.398       0.67919926 -1.9550851
7 -0.16324901]
Round5565-------squared error: 3.9131 parameter: [18.398       0.6791947  -1.9550893
-0.16324831]
Round5566-------squared error: 3.9131 parameter: [18.398       0.67919015 -1.9550934
2 -0.16324762]
Round5567-------squared error: 3.9131 parameter: [18.398       0.6791856  -1.9550975
4 -0.16324692]
Round5568-------squared error: 3.9131 parameter: [18.398       0.67918105 -1.9551016
6 -0.16324623]
```

```
Round5569-------squared error: 3.9131 parameter: [18.398       0.67917651 -1.9551057
7 -0.16324554]
Round5570-------squared error: 3.9131 parameter: [18.398       0.67917197 -1.9551098
8 -0.16324484]
Round5571-------squared error: 3.9131 parameter: [18.398       0.67916744 -1.9551139
8 -0.16324415]
Round5572-------squared error: 3.9131 parameter: [18.398       0.67916291 -1.9551180
8 -0.16324346]
Round5573-------squared error: 3.9131 parameter: [18.398       0.67915838 -1.9551221
8 -0.16324277]
Round5574-------squared error: 3.9131 parameter: [18.398       0.67915386 -1.9551262
7 -0.16324208]
Round5575-------squared error: 3.9131 parameter: [18.398       0.67914935 -1.9551303
6 -0.16324139]
Round5576-------squared error: 3.9131 parameter: [18.398       0.67914483 -1.9551344
5 -0.1632407 ]
Round5577-------squared error: 3.9131 parameter: [18.398       0.67914033 -1.9551385
3 -0.16324001]
Round5578-------squared error: 3.9131 parameter: [18.398       0.67913582 -1.9551426
-0.16323932]
Round5579-------squared error: 3.9131 parameter: [18.398       0.67913133 -1.9551466
8 -0.16323864]
Round5580-------squared error: 3.9131 parameter: [18.398       0.67912683 -1.9551507
5 -0.16323795]
Round5581-------squared error: 3.9131 parameter: [18.398       0.67912234 -1.9551548
1 -0.16323727]
Round5582-------squared error: 3.9131 parameter: [18.398       0.67911785 -1.9551588
7 -0.16323658]
Round5583-------squared error: 3.9131 parameter: [18.398       0.67911337 -1.9551629
3 -0.1632359 ]
Round5584-------squared error: 3.9131 parameter: [18.398       0.6791089  -1.9551669
8 -0.16323521]
Round5585-------squared error: 3.9131 parameter: [18.398       0.67910442 -1.9551710
3 -0.16323453]
Round5586-------squared error: 3.9131 parameter: [18.398       0.67909995 -1.9551750
8 -0.16323385]
Round5587-------squared error: 3.9131 parameter: [18.398       0.67909549 -1.9551791
2 -0.16323317]
Round5588-------squared error: 3.9131 parameter: [18.398       0.67909103 -1.9551831
6 -0.16323248]
Round5589-------squared error: 3.9131 parameter: [18.398       0.67908657 -1.9551871
9 -0.1632318 ]
Round5590-------squared error: 3.9131 parameter: [18.398       0.67908212 -1.9551912
2 -0.16323112]
Round5591-------squared error: 3.9131 parameter: [18.398       0.67907768 -1.9551952
5 -0.16323045]
Round5592-------squared error: 3.9131 parameter: [18.398       0.67907323 -1.9551992
7 -0.16322977]
Round5593-------squared error: 3.9131 parameter: [18.398       0.67906879 -1.9552032
9 -0.16322909]
Round5594-------squared error: 3.9131 parameter: [18.398       0.67906436 -1.9552073
-0.16322841]
Round5595-------squared error: 3.9131 parameter: [18.398       0.67905993 -1.9552113
2 -0.16322774]
Round5596-------squared error: 3.9131 parameter: [18.398       0.67905551 -1.9552153
2 -0.16322706]
Round5597-------squared error: 3.9131 parameter: [18.398       0.67905108 -1.9552193
3 -0.16322639]
Round5598-------squared error: 3.9131 parameter: [18.398       0.67904667 -1.9552233
2 -0.16322571]
Round5599-------squared error: 3.9131 parameter: [18.398       0.67904225 -1.9552273
2 -0.16322504]
Round5600-------squared error: 3.9131 parameter: [18.398       0.67903784 -1.9552313
1 -0.16322436]
```

```
Round5601-------squared error: 3.9131 parameter: [18.398       0.67903344 -1.9552353
-0.16322369]
Round5602-------squared error: 3.9131 parameter: [18.398       0.67902904 -1.9552392
8 -0.16322302]
Round5603-------squared error: 3.9131 parameter: [18.398       0.67902464 -1.9552432
6 -0.16322235]
Round5604-------squared error: 3.9131 parameter: [18.398       0.67902025 -1.9552472
4 -0.16322168]
Round5605-------squared error: 3.9131 parameter: [18.398       0.67901586 -1.9552512
1 -0.16322101]
Round5606-------squared error: 3.9131 parameter: [18.398       0.67901148 -1.9552551
8 -0.16322034]
Round5607-------squared error: 3.9131 parameter: [18.398       0.6790071  -1.9552591
4 -0.16321967]
Round5608-------squared error: 3.9131 parameter: [18.398       0.67900273 -1.9552631
-0.163219  ]
Round5609-------squared error: 3.9131 parameter: [18.398       0.67899836 -1.9552670
6 -0.16321833]
Round5610-------squared error: 3.9131 parameter: [18.398       0.67899399 -1.9552710
2 -0.16321767]
Round5611-------squared error: 3.9131 parameter: [18.398       0.67898963 -1.9552749
6 -0.163217  ]
Round5612-------squared error: 3.9131 parameter: [18.398       0.67898527 -1.9552789
1 -0.16321634]
Round5613-------squared error: 3.9131 parameter: [18.398       0.67898092 -1.9552828
5 -0.16321567]
Round5614-------squared error: 3.9131 parameter: [18.398       0.67897657 -1.9552867
9 -0.16321501]
Round5615-------squared error: 3.9131 parameter: [18.398       0.67897222 -1.9552907
2 -0.16321434]
Round5616-------squared error: 3.9131 parameter: [18.398       0.67896788 -1.9552946
5 -0.16321368]
Round5617-------squared error: 3.9131 parameter: [18.398       0.67896354 -1.9552985
8 -0.16321302]
Round5618-------squared error: 3.9131 parameter: [18.398       0.67895921 -1.9553025
-0.16321236]
Round5619-------squared error: 3.9131 parameter: [18.398       0.67895488 -1.9553064
2 -0.1632117 ]
Round5620-------squared error: 3.9131 parameter: [18.398       0.67895056 -1.9553103
4 -0.16321104]
Round5621-------squared error: 3.9131 parameter: [18.398       0.67894624 -1.9553142
5 -0.16321038]
Round5622-------squared error: 3.9131 parameter: [18.398       0.67894192 -1.9553181
6 -0.16320972]
Round5623-------squared error: 3.9131 parameter: [18.398       0.67893761 -1.9553220
6 -0.16320906]
Round5624-------squared error: 3.9131 parameter: [18.398       0.6789333  -1.9553259
6 -0.1632084 ]
Round5625-------squared error: 3.9131 parameter: [18.398       0.678929   -1.9553298
6 -0.16320774]
Round5626-------squared error: 3.9131 parameter: [18.398       0.6789247  -1.9553337
5 -0.16320709]
Round5627-------squared error: 3.9131 parameter: [18.398       0.6789204  -1.9553376
4 -0.16320643]
Round5628-------squared error: 3.9131 parameter: [18.398       0.67891611 -1.9553415
3 -0.16320578]
Round5629-------squared error: 3.9131 parameter: [18.398       0.67891182 -1.9553454
1 -0.16320512]
Round5630-------squared error: 3.9131 parameter: [18.398       0.67890754 -1.9553492
8 -0.16320447]
Round5631-------squared error: 3.9131 parameter: [18.398       0.67890326 -1.9553531
6 -0.16320381]
Round5632-------squared error: 3.9131 parameter: [18.398       0.67889899 -1.9553570
3 -0.16320316]
```

```
Round5633-------squared error: 3.9131 parameter: [18.398       0.67889472 -1.9553609
-0.16320251]
Round5634-------squared error: 3.9131 parameter: [18.398       0.67889045 -1.9553647
6 -0.16320186]
Round5635-------squared error: 3.9131 parameter: [18.398       0.67888619 -1.9553686
2 -0.16320121]
Round5636-------squared error: 3.9131 parameter: [18.398       0.67888193 -1.9553724
7 -0.16320056]
Round5637-------squared error: 3.9131 parameter: [18.398       0.67887767 -1.9553763
2 -0.16319991]
Round5638-------squared error: 3.9131 parameter: [18.398       0.67887342 -1.9553801
7 -0.16319926]
Round5639-------squared error: 3.9131 parameter: [18.398       0.67886918 -1.9553840
2 -0.16319861]
Round5640-------squared error: 3.9131 parameter: [18.398       0.67886493 -1.9553878
6 -0.16319796]
Round5641-------squared error: 3.9131 parameter: [18.398       0.6788607  -1.9553916
9 -0.16319732]
Round5642-------squared error: 3.9131 parameter: [18.398       0.67885646 -1.9553955
3 -0.16319667]
Round5643-------squared error: 3.9131 parameter: [18.398       0.67885223 -1.9553993
6 -0.16319602]
Round5644-------squared error: 3.9131 parameter: [18.398       0.67884801 -1.9554031
8 -0.16319538]
Round5645-------squared error: 3.9131 parameter: [18.398       0.67884379 -1.955407
-0.16319473]
Round5646-------squared error: 3.9131 parameter: [18.398       0.67883957 -1.9554108
2 -0.16319409]
Round5647-------squared error: 3.9131 parameter: [18.398       0.67883535 -1.9554146
4 -0.16319345]
Round5648-------squared error: 3.9131 parameter: [18.398       0.67883115 -1.9554184
5 -0.1631928 ]
Round5649-------squared error: 3.9131 parameter: [18.398       0.67882694 -1.9554222
6 -0.16319216]
Round5650-------squared error: 3.9131 parameter: [18.398       0.67882274 -1.9554260
6 -0.16319152]
Round5651-------squared error: 3.9131 parameter: [18.398       0.67881854 -1.9554298
6 -0.16319088]
Round5652-------squared error: 3.9131 parameter: [18.398       0.67881435 -1.9554336
6 -0.16319024]
Round5653-------squared error: 3.9131 parameter: [18.398       0.67881016 -1.9554374
5 -0.1631896 ]
Round5654-------squared error: 3.9131 parameter: [18.398       0.67880597 -1.9554412
4 -0.16318896]
Round5655-------squared error: 3.9131 parameter: [18.398       0.67880179 -1.9554450
2 -0.16318832]
Round5656-------squared error: 3.9131 parameter: [18.398       0.67879762 -1.9554488
1 -0.16318768]
Round5657-------squared error: 3.9131 parameter: [18.398       0.67879344 -1.9554525
8 -0.16318705]
Round5658-------squared error: 3.9131 parameter: [18.398       0.67878927 -1.9554563
6 -0.16318641]
Round5659-------squared error: 3.9131 parameter: [18.398       0.67878511 -1.9554601
3 -0.16318577]
Round5660-------squared error: 3.9131 parameter: [18.398       0.67878095 -1.9554639
-0.16318514]
Round5661-------squared error: 3.9131 parameter: [18.398       0.67877679 -1.9554676
6 -0.1631845 ]
Round5662-------squared error: 3.9131 parameter: [18.398       0.67877264 -1.9554714
2 -0.16318387]
Round5663-------squared error: 3.9131 parameter: [18.398       0.67876849 -1.9554751
8 -0.16318324]
Round5664-------squared error: 3.9131 parameter: [18.398       0.67876434 -1.9554789
3 -0.1631826 ]
```

```
Round5665-------squared error: 3.9131 parameter: [18.398       0.6787602  -1.9554826
8 -0.16318197]
Round5666-------squared error: 3.9131 parameter: [18.398       0.67875606 -1.9554864
2 -0.16318134]
Round5667-------squared error: 3.9131 parameter: [18.398       0.67875193 -1.9554901
7 -0.16318071]
Round5668-------squared error: 3.9131 parameter: [18.398       0.6787478  -1.9554939
-0.16318008]
Round5669-------squared error: 3.9131 parameter: [18.398       0.67874368 -1.9554976
4 -0.16317945]
Round5670-------squared error: 3.9131 parameter: [18.398       0.67873956 -1.9555013
7 -0.16317882]
Round5671-------squared error: 3.9131 parameter: [18.398       0.67873544 -1.9555051
-0.16317819]
Round5672-------squared error: 3.9131 parameter: [18.398       0.67873133 -1.9555088
2 -0.16317756]
Round5673-------squared error: 3.9131 parameter: [18.398       0.67872722 -1.9555125
4 -0.16317693]
Round5674-------squared error: 3.9131 parameter: [18.398       0.67872311 -1.9555162
6 -0.16317631]
Round5675-------squared error: 3.9131 parameter: [18.398       0.67871901 -1.9555199
7 -0.16317568]
Round5676-------squared error: 3.9131 parameter: [18.398       0.67871491 -1.9555236
8 -0.16317506]
Round5677-------squared error: 3.9131 parameter: [18.398       0.67871082 -1.9555273
9 -0.16317443]
Round5678-------squared error: 3.9131 parameter: [18.398       0.67870673 -1.9555310
9 -0.16317381]
Round5679-------squared error: 3.9131 parameter: [18.398       0.67870264 -1.9555347
9 -0.16317318]
Round5680-------squared error: 3.9131 parameter: [18.398       0.67869856 -1.9555384
9 -0.16317256]
Round5681-------squared error: 3.9131 parameter: [18.398       0.67869448 -1.9555421
8 -0.16317194]
Round5682-------squared error: 3.9131 parameter: [18.398       0.67869041 -1.9555458
7 -0.16317131]
Round5683-------squared error: 3.9131 parameter: [18.398       0.67868634 -1.9555495
5 -0.16317069]
Round5684-------squared error: 3.9131 parameter: [18.398       0.67868227 -1.9555532
3 -0.16317007]
Round5685-------squared error: 3.9131 parameter: [18.398       0.67867821 -1.9555569
1 -0.16316945]
Round5686-------squared error: 3.9131 parameter: [18.398       0.67867415 -1.9555605
8 -0.16316883]
Round5687-------squared error: 3.9131 parameter: [18.398       0.6786701  -1.9555642
5 -0.16316821]
Round5688-------squared error: 3.9131 parameter: [18.398       0.67866605 -1.9555679
2 -0.16316759]
Round5689-------squared error: 3.9131 parameter: [18.398       0.678662   -1.9555715
8 -0.16316698]
Round5690-------squared error: 3.9131 parameter: [18.398       0.67865796 -1.9555752
4 -0.16316636]
Round5691-------squared error: 3.9131 parameter: [18.398       0.67865392 -1.9555789
-0.16316574]
Round5692-------squared error: 3.9131 parameter: [18.398       0.67864989 -1.9555825
5 -0.16316513]
Round5693-------squared error: 3.9131 parameter: [18.398       0.67864586 -1.9555862
-0.16316451]
Round5694-------squared error: 3.9131 parameter: [18.398       0.67864183 -1.9555898
5 -0.1631639 ]
Round5695-------squared error: 3.9131 parameter: [18.398       0.67863781 -1.9555934
9 -0.16316328]
Round5696-------squared error: 3.9131 parameter: [18.398       0.67863379 -1.9555971
3 -0.16316267]
```

```
Round5697-------squared error: 3.9131 parameter: [18.398       0.67862977 -1.9556007
6 -0.16316205]
Round5698-------squared error: 3.9131 parameter: [18.398       0.67862576 -1.9556044
-0.16316144]
Round5699-------squared error: 3.9131 parameter: [18.398       0.67862175 -1.9556080
2 -0.16316083]
Round5700-------squared error: 3.9131 parameter: [18.398       0.67861775 -1.9556116
5 -0.16316022]
Round5701-------squared error: 3.9131 parameter: [18.398       0.67861375 -1.9556152
7 -0.16315961]
Round5702-------squared error: 3.9131 parameter: [18.398       0.67860975 -1.9556188
9 -0.163159  ]
Round5703-------squared error: 3.9131 parameter: [18.398       0.67860576 -1.9556225
-0.16315839]
Round5704-------squared error: 3.9131 parameter: [18.398       0.67860177 -1.9556261
1 -0.16315778]
Round5705-------squared error: 3.9131 parameter: [18.398       0.67859779 -1.9556297
2 -0.16315717]
Round5706-------squared error: 3.9131 parameter: [18.398       0.67859381 -1.9556333
3 -0.16315656]
Round5707-------squared error: 3.9131 parameter: [18.398       0.67858983 -1.9556369
3 -0.16315596]
Round5708-------squared error: 3.9131 parameter: [18.398       0.67858586 -1.9556405
2 -0.16315535]
Round5709-------squared error: 3.9131 parameter: [18.398       0.67858189 -1.9556441
2 -0.16315474]
Round5710-------squared error: 3.9131 parameter: [18.398       0.67857792 -1.9556477
1 -0.16315414]
Round5711-------squared error: 3.9131 parameter: [18.398       0.67857396 -1.9556512
9 -0.16315353]
Round5712-------squared error: 3.9131 parameter: [18.398       0.67857    -1.9556548
8 -0.16315293]
Round5713-------squared error: 3.9131 parameter: [18.398       0.67856605 -1.9556584
6 -0.16315232]
Round5714-------squared error: 3.9131 parameter: [18.398       0.6785621  -1.9556620
3 -0.16315172]
Round5715-------squared error: 3.9131 parameter: [18.398       0.67855815 -1.9556656
1 -0.16315112]
Round5716-------squared error: 3.9131 parameter: [18.398       0.67855421 -1.9556691
7 -0.16315052]
Round5717-------squared error: 3.9131 parameter: [18.398       0.67855027 -1.9556727
4 -0.16314991]
Round5718-------squared error: 3.9131 parameter: [18.398       0.67854634 -1.9556763
-0.16314931]
Round5719-------squared error: 3.9131 parameter: [18.398       0.6785424  -1.9556798
6 -0.16314871]
Round5720-------squared error: 3.9131 parameter: [18.398       0.67853848 -1.9556834
2 -0.16314811]
Round5721-------squared error: 3.9131 parameter: [18.398       0.67853455 -1.9556869
7 -0.16314751]
Round5722-------squared error: 3.9131 parameter: [18.398       0.67853063 -1.9556905
2 -0.16314692]
Round5723-------squared error: 3.9131 parameter: [18.398       0.67852672 -1.9556940
6 -0.16314632]
Round5724-------squared error: 3.9131 parameter: [18.398       0.67852281 -1.9556976
1 -0.16314572]
Round5725-------squared error: 3.9131 parameter: [18.398       0.6785189  -1.9557011
5 -0.16314512]
Round5726-------squared error: 3.9131 parameter: [18.398       0.67851499 -1.9557046
8 -0.16314453]
Round5727-------squared error: 3.9131 parameter: [18.398       0.67851109 -1.9557082
1 -0.16314393]
Round5728-------squared error: 3.9131 parameter: [18.398       0.67850719 -1.9557117
4 -0.16314334]
```

```
Round5729-------squared error: 3.9131 parameter: [18.398       0.6785033  -1.9557152
7 -0.16314274]
Round5730-------squared error: 3.9131 parameter: [18.398       0.67849941 -1.9557187
9 -0.16314215]
Round5731-------squared error: 3.9131 parameter: [18.398       0.67849552 -1.9557223
1 -0.16314156]
Round5732-------squared error: 3.9131 parameter: [18.398       0.67849164 -1.9557258
2 -0.16314096]
Round5733-------squared error: 3.9131 parameter: [18.398       0.67848776 -1.9557293
3 -0.16314037]
Round5734-------squared error: 3.9131 parameter: [18.398       0.67848389 -1.9557328
4 -0.16313978]
Round5735-------squared error: 3.9131 parameter: [18.398       0.67848002 -1.9557363
4 -0.16313919]
Round5736-------squared error: 3.9131 parameter: [18.398       0.67847615 -1.9557398
5 -0.1631386 ]
Round5737-------squared error: 3.9131 parameter: [18.398       0.67847229 -1.9557433
4 -0.16313801]
Round5738-------squared error: 3.9131 parameter: [18.398       0.67846843 -1.9557468
4 -0.16313742]
Round5739-------squared error: 3.9131 parameter: [18.398       0.67846457 -1.9557503
3 -0.16313683]
Round5740-------squared error: 3.9131 parameter: [18.398       0.67846072 -1.9557538
2 -0.16313624]
Round5741-------squared error: 3.9131 parameter: [18.398       0.67845687 -1.9557573
-0.16313565]
Round5742-------squared error: 3.9131 parameter: [18.398       0.67845303 -1.9557607
8 -0.16313507]
Round5743-------squared error: 3.9131 parameter: [18.398       0.67844918 -1.9557642
6 -0.16313448]
Round5744-------squared error: 3.9131 parameter: [18.398       0.67844535 -1.9557677
3 -0.16313389]
Round5745-------squared error: 3.9131 parameter: [18.398       0.67844151 -1.9557712
1 -0.16313331]
Round5746-------squared error: 3.9131 parameter: [18.398       0.67843768 -1.9557746
7 -0.16313272]
Round5747-------squared error: 3.9131 parameter: [18.398       0.67843386 -1.9557781
4 -0.16313214]
Round5748-------squared error: 3.9131 parameter: [18.398       0.67843003 -1.9557816
-0.16313155]
Round5749-------squared error: 3.9131 parameter: [18.398       0.67842621 -1.9557850
6 -0.16313097]
Round5750-------squared error: 3.9131 parameter: [18.398       0.6784224  -1.9557885
1 -0.16313039]
Round5751-------squared error: 3.9131 parameter: [18.398       0.67841859 -1.9557919
6 -0.16312981]
Round5752-------squared error: 3.9131 parameter: [18.398       0.67841478 -1.9557954
1 -0.16312922]
Round5753-------squared error: 3.9131 parameter: [18.398       0.67841097 -1.9557988
5 -0.16312864]
Round5754-------squared error: 3.9131 parameter: [18.398       0.67840717 -1.9558022
9 -0.16312806]
Round5755-------squared error: 3.9131 parameter: [18.398       0.67840338 -1.9558057
3 -0.16312748]
Round5756-------squared error: 3.9131 parameter: [18.398       0.67839958 -1.9558091
7 -0.1631269 ]
Round5757-------squared error: 3.9131 parameter: [18.398       0.67839579 -1.9558126
-0.16312633]
Round5758-------squared error: 3.9131 parameter: [18.398       0.67839201 -1.9558160
3 -0.16312575]
Round5759-------squared error: 3.9131 parameter: [18.398       0.67838822 -1.9558194
5 -0.16312517]
Round5760-------squared error: 3.9131 parameter: [18.398       0.67838444 -1.9558228
7 -0.16312459]
```

```
Round5761-------squared error: 3.9131 parameter: [18.398       0.67838067 -1.9558262
9 -0.16312402]
Round5762-------squared error: 3.9131 parameter: [18.398       0.6783769  -1.9558297
-0.16312344]
Round5763-------squared error: 3.9131 parameter: [18.398       0.67837313 -1.9558331
2 -0.16312287]
Round5764-------squared error: 3.9131 parameter: [18.398       0.67836937 -1.9558365
2 -0.16312229]
Round5765-------squared error: 3.9131 parameter: [18.398       0.6783656  -1.9558399
3 -0.16312172]
Round5766-------squared error: 3.9131 parameter: [18.398       0.67836185 -1.9558433
3 -0.16312114]
Round5767-------squared error: 3.9131 parameter: [18.398       0.67835809 -1.9558467
3 -0.16312057]
Round5768-------squared error: 3.9131 parameter: [18.398       0.67835434 -1.9558501
2 -0.16312   ]
Round5769-------squared error: 3.9131 parameter: [18.398       0.6783506  -1.9558535
1 -0.16311942]
Round5770-------squared error: 3.9131 parameter: [18.398       0.67834686 -1.9558569
-0.16311885]
Round5771-------squared error: 3.9131 parameter: [18.398       0.67834312 -1.9558602
9 -0.16311828]
Round5772-------squared error: 3.9131 parameter: [18.398       0.67833938 -1.9558636
7 -0.16311771]
Round5773-------squared error: 3.9131 parameter: [18.398       0.67833565 -1.9558670
5 -0.16311714]
Round5774-------squared error: 3.9131 parameter: [18.398       0.67833192 -1.9558704
2 -0.16311657]
Round5775-------squared error: 3.9131 parameter: [18.398      0.6783282 -1.9558738 -
0.163116 ]
Round5776-------squared error: 3.9131 parameter: [18.398       0.67832447 -1.9558771
7 -0.16311544]
Round5777-------squared error: 3.9131 parameter: [18.398       0.67832076 -1.9558805
3 -0.16311487]
Round5778-------squared error: 3.9131 parameter: [18.398       0.67831704 -1.9558838
9 -0.1631143 ]
Round5779-------squared error: 3.9131 parameter: [18.398       0.67831333 -1.9558872
5 -0.16311373]
Round5780-------squared error: 3.9131 parameter: [18.398       0.67830963 -1.9558906
1 -0.16311317]
Round5781-------squared error: 3.9131 parameter: [18.398       0.67830592 -1.9558939
6 -0.1631126 ]
Round5782-------squared error: 3.9131 parameter: [18.398       0.67830222 -1.9558973
1 -0.16311204]
Round5783-------squared error: 3.9131 parameter: [18.398       0.67829853 -1.9559006
6 -0.16311147]
Round5784-------squared error: 3.9131 parameter: [18.398       0.67829483 -1.955904
-0.16311091]
Round5785-------squared error: 3.9131 parameter: [18.398       0.67829115 -1.9559073
4 -0.16311035]
Round5786-------squared error: 3.9131 parameter: [18.398       0.67828746 -1.9559106
8 -0.16310978]
Round5787-------squared error: 3.9131 parameter: [18.398       0.67828378 -1.9559140
1 -0.16310922]
Round5788-------squared error: 3.9131 parameter: [18.398       0.6782801  -1.9559173
4 -0.16310866]
Round5789-------squared error: 3.9131 parameter: [18.398       0.67827642 -1.9559206
7 -0.1631081 ]
Round5790-------squared error: 3.9131 parameter: [18.398       0.67827275 -1.9559239
9 -0.16310754]
Round5791-------squared error: 3.9131 parameter: [18.398       0.67826909 -1.9559273
1 -0.16310698]
Round5792-------squared error: 3.9131 parameter: [18.398       0.67826542 -1.9559306
3 -0.16310642]
```

```
Round5793-------squared error: 3.9131 parameter: [18.398       0.67826176 -1.9559339
4 -0.16310586]
Round5794-------squared error: 3.9131 parameter: [18.398       0.6782581  -1.9559372
5 -0.1631053 ]
Round5795-------squared error: 3.9131 parameter: [18.398       0.67825445 -1.9559405
6 -0.16310474]
Round5796-------squared error: 3.9131 parameter: [18.398       0.6782508  -1.9559438
7 -0.16310418]
Round5797-------squared error: 3.9131 parameter: [18.398       0.67824715 -1.9559471
7 -0.16310363]
Round5798-------squared error: 3.9131 parameter: [18.398       0.67824351 -1.9559504
7 -0.16310307]
Round5799-------squared error: 3.9131 parameter: [18.398       0.67823987 -1.9559537
6 -0.16310252]
Round5800-------squared error: 3.9131 parameter: [18.398       0.67823624 -1.9559570
5 -0.16310196]
Round5801-------squared error: 3.9131 parameter: [18.398       0.6782326  -1.9559603
4 -0.16310141]
Round5802-------squared error: 3.9131 parameter: [18.398       0.67822897 -1.9559636
3 -0.16310085]
Round5803-------squared error: 3.9131 parameter: [18.398       0.67822535 -1.9559669
1 -0.1631003 ]
Round5804-------squared error: 3.9131 parameter: [18.398       0.67822173 -1.9559701
9 -0.16309974]
Round5805-------squared error: 3.9131 parameter: [18.398       0.67821811 -1.9559734
6 -0.16309919]
Round5806-------squared error: 3.9131 parameter: [18.398       0.67821449 -1.9559767
4 -0.16309864]
Round5807-------squared error: 3.9131 parameter: [18.398       0.67821088 -1.9559800
1 -0.16309809]
Round5808-------squared error: 3.9131 parameter: [18.398       0.67820727 -1.9559832
7 -0.16309754]
Round5809-------squared error: 3.9131 parameter: [18.398       0.67820367 -1.9559865
4 -0.16309699]
Round5810-------squared error: 3.9131 parameter: [18.398       0.67820007 -1.9559898
-0.16309644]
Round5811-------squared error: 3.9131 parameter: [18.398       0.67819647 -1.9559930
6 -0.16309589]
Round5812-------squared error: 3.9131 parameter: [18.398       0.67819287 -1.9559963
1 -0.16309534]
Round5813-------squared error: 3.9131 parameter: [18.398       0.67818928 -1.9559995
6 -0.16309479]
Round5814-------squared error: 3.9131 parameter: [18.398       0.6781857  -1.9560028
1 -0.16309424]
Round5815-------squared error: 3.9131 parameter: [18.398       0.67818211 -1.9560060
5 -0.1630937 ]
Round5816-------squared error: 3.9131 parameter: [18.398       0.67817853 -1.9560092
9 -0.16309315]
Round5817-------squared error: 3.9131 parameter: [18.398       0.67817496 -1.9560125
3 -0.1630926 ]
Round5818-------squared error: 3.9131 parameter: [18.398       0.67817138 -1.9560157
7 -0.16309206]
Round5819-------squared error: 3.9131 parameter: [18.398       0.67816781 -1.956019
-0.16309151]
Round5820-------squared error: 3.9131 parameter: [18.398       0.67816424 -1.9560222
3 -0.16309097]
Round5821-------squared error: 3.9131 parameter: [18.398       0.67816068 -1.9560254
5 -0.16309042]
Round5822-------squared error: 3.9131 parameter: [18.398       0.67815712 -1.9560286
8 -0.16308988]
Round5823-------squared error: 3.9131 parameter: [18.398       0.67815357 -1.9560319
-0.16308934]
Round5824-------squared error: 3.9131 parameter: [18.398       0.67815001 -1.9560351
1 -0.16308879]
```

```
Round5825-------squared error: 3.9131 parameter: [18.398       0.67814646 -1.9560383
3 -0.16308825]
Round5826-------squared error: 3.9131 parameter: [18.398       0.67814292 -1.9560415
4 -0.16308771]
Round5827-------squared error: 3.9131 parameter: [18.398       0.67813937 -1.9560447
5 -0.16308717]
Round5828-------squared error: 3.9131 parameter: [18.398       0.67813583 -1.9560479
5 -0.16308663]
Round5829-------squared error: 3.9131 parameter: [18.398       0.6781323  -1.9560511
5 -0.16308609]
Round5830-------squared error: 3.9131 parameter: [18.398       0.67812877 -1.9560543
5 -0.16308555]
Round5831-------squared error: 3.9131 parameter: [18.398       0.67812524 -1.9560575
4 -0.16308501]
Round5832-------squared error: 3.9131 parameter: [18.398       0.67812171 -1.9560607
4 -0.16308447]
Round5833-------squared error: 3.9131 parameter: [18.398       0.67811819 -1.9560639
2 -0.16308393]
Round5834-------squared error: 3.9131 parameter: [18.398       0.67811467 -1.9560671
1 -0.1630834 ]
Round5835-------squared error: 3.9131 parameter: [18.398       0.67811115 -1.9560702
9 -0.16308286]
Round5836-------squared error: 3.9131 parameter: [18.398       0.67810764 -1.9560734
7 -0.16308232]
Round5837-------squared error: 3.9131 parameter: [18.398       0.67810413 -1.9560766
5 -0.16308179]
Round5838-------squared error: 3.9131 parameter: [18.398       0.67810063 -1.9560798
2 -0.16308125]
Round5839-------squared error: 3.9131 parameter: [18.398       0.67809713 -1.9560829
9 -0.16308072]
Round5840-------squared error: 3.9131 parameter: [18.398       0.67809363 -1.9560861
6 -0.16308018]
Round5841-------squared error: 3.9131 parameter: [18.398       0.67809013 -1.9560893
3 -0.16307965]
Round5842-------squared error: 3.9131 parameter: [18.398       0.67808664 -1.9560924
9 -0.16307912]
Round5843-------squared error: 3.9131 parameter: [18.398       0.67808315 -1.9560956
5 -0.16307858]
Round5844-------squared error: 3.9131 parameter: [18.398       0.67807967 -1.9560988
-0.16307805]
Round5845-------squared error: 3.9131 parameter: [18.398       0.67807619 -1.9561019
5 -0.16307752]
Round5846-------squared error: 3.9131 parameter: [18.398       0.67807271 -1.9561051
-0.16307699]
Round5847-------squared error: 3.9131 parameter: [18.398       0.67806923 -1.9561082
5 -0.16307646]
Round5848-------squared error: 3.9131 parameter: [18.398       0.67806576 -1.9561113
9 -0.16307593]
Round5849-------squared error: 3.9131 parameter: [18.398       0.67806229 -1.9561145
3 -0.1630754 ]
Round5850-------squared error: 3.9131 parameter: [18.398       0.67805883 -1.9561176
7 -0.16307487]
Round5851-------squared error: 3.9131 parameter: [18.398       0.67805537 -1.9561208
-0.16307434]
Round5852-------squared error: 3.9131 parameter: [18.398       0.67805191 -1.9561239
3 -0.16307381]
Round5853-------squared error: 3.9131 parameter: [18.398       0.67804845 -1.9561270
6 -0.16307328]
Round5854-------squared error: 3.9131 parameter: [18.398       0.678045   -1.9561301
9 -0.16307276]
Round5855-------squared error: 3.9131 parameter: [18.398       0.67804155 -1.9561333
1 -0.16307223]
Round5856-------squared error: 3.9131 parameter: [18.398       0.67803811 -1.9561364
3 -0.1630717 ]
```

```
Round5857-------squared error: 3.9131 parameter: [18.398       0.67803466 -1.9561395
4 -0.16307118]
Round5858-------squared error: 3.9131 parameter: [18.398       0.67803123 -1.9561426
6 -0.16307065]
Round5859-------squared error: 3.9131 parameter: [18.398       0.67802779 -1.9561457
7 -0.16307013]
Round5860-------squared error: 3.9131 parameter: [18.398       0.67802436 -1.9561488
7 -0.1630696 ]
Round5861-------squared error: 3.9131 parameter: [18.398       0.67802093 -1.9561519
8 -0.16306908]
Round5862-------squared error: 3.9131 parameter: [18.398       0.67801751 -1.9561550
8 -0.16306856]
Round5863-------squared error: 3.9131 parameter: [18.398       0.67801408 -1.9561581
8 -0.16306804]
Round5864-------squared error: 3.9131 parameter: [18.398       0.67801067 -1.9561612
7 -0.16306751]
Round5865-------squared error: 3.9131 parameter: [18.398       0.67800725 -1.9561643
6 -0.16306699]
Round5866-------squared error: 3.9131 parameter: [18.398       0.67800384 -1.9561674
5 -0.16306647]
Round5867-------squared error: 3.9131 parameter: [18.398       0.67800043 -1.9561705
4 -0.16306595]
Round5868-------squared error: 3.9131 parameter: [18.398       0.67799702 -1.9561736
2 -0.16306543]
Round5869-------squared error: 3.9131 parameter: [18.398       0.67799362 -1.9561767
-0.16306491]
Round5870-------squared error: 3.9131 parameter: [18.398       0.67799022 -1.9561797
8 -0.16306439]
Round5871-------squared error: 3.9131 parameter: [18.398       0.67798683 -1.9561828
5 -0.16306387]
Round5872-------squared error: 3.9131 parameter: [18.398       0.67798343 -1.9561859
2 -0.16306335]
Round5873-------squared error: 3.9131 parameter: [18.398       0.67798005 -1.9561889
9 -0.16306284]
Round5874-------squared error: 3.9131 parameter: [18.398       0.67797666 -1.9561920
6 -0.16306232]
Round5875-------squared error: 3.9131 parameter: [18.398       0.67797328 -1.9561951
2 -0.1630618 ]
Round5876-------squared error: 3.9131 parameter: [18.398       0.6779699  -1.9561981
8 -0.16306129]
Round5877-------squared error: 3.9131 parameter: [18.398       0.67796652 -1.9562012
4 -0.16306077]
Round5878-------squared error: 3.9131 parameter: [18.398       0.67796315 -1.9562042
9 -0.16306026]
Round5879-------squared error: 3.9131 parameter: [18.398       0.67795978 -1.9562073
4 -0.16305974]
Round5880-------squared error: 3.9131 parameter: [18.398       0.67795641 -1.9562103
9 -0.16305923]
Round5881-------squared error: 3.9131 parameter: [18.398       0.67795305 -1.9562134
3 -0.16305871]
Round5882-------squared error: 3.9131 parameter: [18.398       0.67794969 -1.9562164
8 -0.1630582 ]
Round5883-------squared error: 3.9131 parameter: [18.398       0.67794633 -1.9562195
1 -0.16305769]
Round5884-------squared error: 3.9131 parameter: [18.398       0.67794298 -1.9562225
5 -0.16305718]
Round5885-------squared error: 3.9131 parameter: [18.398       0.67793963 -1.9562255
8 -0.16305667]
Round5886-------squared error: 3.9131 parameter: [18.398       0.67793628 -1.9562286
1 -0.16305615]
Round5887-------squared error: 3.9131 parameter: [18.398       0.67793294 -1.9562316
4 -0.16305564]
Round5888-------squared error: 3.9131 parameter: [18.398       0.6779296  -1.9562346
6 -0.16305513]
```

```
Round5889-------squared error: 3.9131 parameter: [18.398       0.67792626 -1.9562376
9 -0.16305462]
Round5890-------squared error: 3.9131 parameter: [18.398       0.67792293 -1.9562407
-0.16305411]
Round5891-------squared error: 3.9131 parameter: [18.398       0.6779196  -1.9562437
2 -0.16305361]
Round5892-------squared error: 3.9131 parameter: [18.398       0.67791627 -1.9562467
3 -0.1630531 ]
Round5893-------squared error: 3.9131 parameter: [18.398       0.67791294 -1.9562497
4 -0.16305259]
Round5894-------squared error: 3.9131 parameter: [18.398       0.67790962 -1.9562527
5 -0.16305208]
Round5895-------squared error: 3.9131 parameter: [18.398       0.6779063  -1.9562557
5 -0.16305158]
Round5896-------squared error: 3.9131 parameter: [18.398       0.67790299 -1.9562587
5 -0.16305107]
Round5897-------squared error: 3.9131 parameter: [18.398       0.67789968 -1.9562617
5 -0.16305056]
Round5898-------squared error: 3.9131 parameter: [18.398       0.67789637 -1.9562647
5 -0.16305006]
Round5899-------squared error: 3.9131 parameter: [18.398       0.67789306 -1.9562677
4 -0.16304955]
Round5900-------squared error: 3.9131 parameter: [18.398       0.67788976 -1.9562707
3 -0.16304905]
Round5901-------squared error: 3.9131 parameter: [18.398       0.67788646 -1.9562737
2 -0.16304855]
Round5902-------squared error: 3.9131 parameter: [18.398       0.67788317 -1.9562767
-0.16304804]
Round5903-------squared error: 3.9131 parameter: [18.398       0.67787987 -1.9562796
8 -0.16304754]
Round5904-------squared error: 3.9131 parameter: [18.398       0.67787659 -1.9562826
6 -0.16304704]
Round5905-------squared error: 3.9131 parameter: [18.398       0.6778733  -1.9562856
3 -0.16304654]
Round5906-------squared error: 3.9131 parameter: [18.398       0.67787002 -1.9562886
1 -0.16304603]
Round5907-------squared error: 3.9131 parameter: [18.398       0.67786674 -1.9562915
8 -0.16304553]
Round5908-------squared error: 3.9131 parameter: [18.398       0.67786346 -1.9562945
4 -0.16304503]
Round5909-------squared error: 3.9131 parameter: [18.398       0.67786019 -1.9562975
1 -0.16304453]
Round5910-------squared error: 3.9131 parameter: [18.398       0.67785692 -1.9563004
7 -0.16304403]
Round5911-------squared error: 3.9131 parameter: [18.398       0.67785365 -1.9563034
3 -0.16304353]
Round5912-------squared error: 3.9131 parameter: [18.398       0.67785038 -1.9563063
8 -0.16304304]
Round5913-------squared error: 3.9131 parameter: [18.398       0.67784712 -1.9563093
3 -0.16304254]
Round5914-------squared error: 3.9131 parameter: [18.398       0.67784387 -1.9563122
8 -0.16304204]
Round5915-------squared error: 3.9131 parameter: [18.398       0.67784061 -1.9563152
3 -0.16304154]
Round5916-------squared error: 3.9131 parameter: [18.398       0.67783736 -1.9563181
7 -0.16304105]
Round5917-------squared error: 3.9131 parameter: [18.398       0.67783411 -1.9563211
1 -0.16304055]
Round5918-------squared error: 3.9131 parameter: [18.398       0.67783087 -1.9563240
5 -0.16304006]
Round5919-------squared error: 3.9131 parameter: [18.398       0.67782762 -1.9563269
9 -0.16303956]
Round5920-------squared error: 3.9131 parameter: [18.398       0.67782438 -1.9563299
2 -0.16303907]
```

```
Round5921-------squared error: 3.9131 parameter: [18.398       0.67782115 -1.9563328
5 -0.16303857]
Round5922-------squared error: 3.9131 parameter: [18.398       0.67781791 -1.9563357
8 -0.16303808]
Round5923-------squared error: 3.9131 parameter: [18.398       0.67781469 -1.9563387
-0.16303758]
Round5924-------squared error: 3.9131 parameter: [18.398       0.67781146 -1.9563416
2 -0.16303709]
Round5925-------squared error: 3.9131 parameter: [18.398       0.67780824 -1.9563445
4 -0.1630366 ]
Round5926-------squared error: 3.9131 parameter: [18.398       0.67780501 -1.9563474
5 -0.16303611]
Round5927-------squared error: 3.9131 parameter: [18.398       0.6778018  -1.9563503
7 -0.16303562]
Round5928-------squared error: 3.9131 parameter: [18.398       0.67779858 -1.9563532
8 -0.16303513]
Round5929-------squared error: 3.9131 parameter: [18.398       0.67779537 -1.9563561
8 -0.16303463]
Round5930-------squared error: 3.9131 parameter: [18.398       0.67779216 -1.9563590
9 -0.16303414]
Round5931-------squared error: 3.9131 parameter: [18.398       0.67778896 -1.9563619
9 -0.16303366]
Round5932-------squared error: 3.9131 parameter: [18.398       0.67778576 -1.9563648
9 -0.16303317]
Round5933-------squared error: 3.9131 parameter: [18.398       0.67778256 -1.9563677
9 -0.16303268]
Round5934-------squared error: 3.9131 parameter: [18.398       0.67777936 -1.9563706
8 -0.16303219]
Round5935-------squared error: 3.9131 parameter: [18.398       0.67777617 -1.9563735
7 -0.1630317 ]
Round5936-------squared error: 3.9131 parameter: [18.398       0.67777298 -1.9563764
6 -0.16303122]
Round5937-------squared error: 3.9131 parameter: [18.398       0.67776979 -1.9563793
4 -0.16303073]
Round5938-------squared error: 3.9131 parameter: [18.398       0.67776661 -1.9563822
2 -0.16303024]
Round5939-------squared error: 3.9131 parameter: [18.398       0.67776343 -1.9563851
-0.16302976]
Round5940-------squared error: 3.9131 parameter: [18.398       0.67776025 -1.9563879
8 -0.16302927]
Round5941-------squared error: 3.9131 parameter: [18.398       0.67775708 -1.9563908
5 -0.16302879]
Round5942-------squared error: 3.9131 parameter: [18.398       0.67775391 -1.9563937
2 -0.1630283 ]
Round5943-------squared error: 3.9131 parameter: [18.398       0.67775074 -1.9563965
9 -0.16302782]
Round5944-------squared error: 3.9131 parameter: [18.398       0.67774757 -1.9563994
6 -0.16302734]
Round5945-------squared error: 3.9131 parameter: [18.398       0.67774441 -1.9564023
2 -0.16302685]
Round5946-------squared error: 3.9131 parameter: [18.398       0.67774125 -1.9564051
8 -0.16302637]
Round5947-------squared error: 3.9131 parameter: [18.398       0.6777381  -1.9564080
4 -0.16302589]
Round5948-------squared error: 3.9131 parameter: [18.398       0.67773494 -1.9564108
9 -0.16302541]
Round5949-------squared error: 3.9131 parameter: [18.398       0.67773179 -1.9564137
4 -0.16302493]
Round5950-------squared error: 3.9131 parameter: [18.398       0.67772865 -1.9564165
9 -0.16302444]
Round5951-------squared error: 3.9131 parameter: [18.398       0.6777255  -1.9564194
4 -0.16302396]
Round5952-------squared error: 3.9131 parameter: [18.398       0.67772236 -1.9564222
8 -0.16302348]
```

```
Round5953-------squared error: 3.9131 parameter: [18.398       0.67771923 -1.9564251
2 -0.16302301]
Round5954-------squared error: 3.9131 parameter: [18.398       0.67771609 -1.9564279
6 -0.16302253]
Round5955-------squared error: 3.9131 parameter: [18.398       0.67771296 -1.9564308
-0.16302205]
Round5956-------squared error: 3.9131 parameter: [18.398       0.67770983 -1.9564336
3 -0.16302157]
Round5957-------squared error: 3.9131 parameter: [18.398       0.67770671 -1.9564364
6 -0.16302109]
Round5958-------squared error: 3.9131 parameter: [18.398       0.67770358 -1.9564392
9 -0.16302062]
Round5959-------squared error: 3.9131 parameter: [18.398       0.67770046 -1.9564421
1 -0.16302014]
Round5960-------squared error: 3.9131 parameter: [18.398       0.67769735 -1.9564449
3 -0.16301966]
Round5961-------squared error: 3.9131 parameter: [18.398       0.67769423 -1.9564477
5 -0.16301919]
Round5962-------squared error: 3.9131 parameter: [18.398       0.67769112 -1.9564505
7 -0.16301871]
Round5963-------squared error: 3.9131 parameter: [18.398       0.67768801 -1.9564533
8 -0.16301824]
Round5964-------squared error: 3.9131 parameter: [18.398       0.67768491 -1.9564561
9 -0.16301776]
Round5965-------squared error: 3.9131 parameter: [18.398       0.67768181 -1.956459
-0.16301729]
Round5966-------squared error: 3.9131 parameter: [18.398       0.67767871 -1.9564618
-0.16301682]
Round5967-------squared error: 3.9131 parameter: [18.398       0.67767561 -1.9564646
1 -0.16301635]
Round5968-------squared error: 3.9131 parameter: [18.398       0.67767252 -1.9564674
1 -0.16301587]
Round5969-------squared error: 3.9131 parameter: [18.398       0.67766943 -1.9564702
-0.1630154 ]
Round5970-------squared error: 3.9131 parameter: [18.398       0.67766634 -1.956473
-0.16301493]
Round5971-------squared error: 3.9131 parameter: [18.398       0.67766326 -1.9564757
9 -0.16301446]
Round5972-------squared error: 3.9131 parameter: [18.398       0.67766018 -1.9564785
8 -0.16301399]
Round5973-------squared error: 3.9131 parameter: [18.398       0.6776571  -1.9564813
7 -0.16301352]
Round5974-------squared error: 3.9131 parameter: [18.398       0.67765403 -1.9564841
5 -0.16301305]
Round5975-------squared error: 3.9131 parameter: [18.398       0.67765096 -1.9564869
3 -0.16301258]
Round5976-------squared error: 3.9131 parameter: [18.398       0.67764789 -1.9564897
1 -0.16301211]
Round5977-------squared error: 3.9131 parameter: [18.398       0.67764482 -1.9564924
8 -0.16301164]
Round5978-------squared error: 3.9131 parameter: [18.398       0.67764176 -1.9564952
6 -0.16301117]
Round5979-------squared error: 3.9131 parameter: [18.398       0.6776387  -1.9564980
3 -0.16301071]
Round5980-------squared error: 3.9131 parameter: [18.398       0.67763564 -1.9565008
-0.16301024]
Round5981-------squared error: 3.9131 parameter: [18.398       0.67763259 -1.9565035
6 -0.16300977]
Round5982-------squared error: 3.9131 parameter: [18.398       0.67762953 -1.9565063
2 -0.16300931]
Round5983-------squared error: 3.9131 parameter: [18.398       0.67762649 -1.9565090
8 -0.16300884]
Round5984-------squared error: 3.9131 parameter: [18.398       0.67762344 -1.9565118
4 -0.16300838]
```

```
Round5985-------squared error: 3.9131 parameter: [18.398       0.6776204  -1.9565145
9 -0.16300791]
Round5986-------squared error: 3.9131 parameter: [18.398       0.67761736 -1.9565173
5 -0.16300745]
Round5987-------squared error: 3.9131 parameter: [18.398       0.67761432 -1.9565201
-0.16300698]
Round5988-------squared error: 3.9131 parameter: [18.398       0.67761129 -1.9565228
4 -0.16300652]
Round5989-------squared error: 3.9131 parameter: [18.398       0.67760826 -1.9565255
9 -0.16300606]
Round5990-------squared error: 3.9131 parameter: [18.398       0.67760523 -1.9565283
3 -0.1630056 ]
Round5991-------squared error: 3.9131 parameter: [18.398       0.6776022  -1.9565310
7 -0.16300513]
Round5992-------squared error: 3.9131 parameter: [18.398       0.67759918 -1.9565338
-0.16300467]
Round5993-------squared error: 3.9131 parameter: [18.398       0.67759616 -1.9565365
4 -0.16300421]
Round5994-------squared error: 3.9131 parameter: [18.398       0.67759315 -1.9565392
7 -0.16300375]
Round5995-------squared error: 3.9131 parameter: [18.398       0.67759013 -1.9565419
9 -0.16300329]
Round5996-------squared error: 3.9131 parameter: [18.398       0.67758712 -1.9565447
2 -0.16300283]
Round5997-------squared error: 3.9131 parameter: [18.398       0.67758412 -1.9565474
4 -0.16300237]
Round5998-------squared error: 3.9131 parameter: [18.398       0.67758111 -1.9565501
6 -0.16300191]
Round5999-------squared error: 3.9131 parameter: [18.398       0.67757811 -1.9565528
8 -0.16300145]
Round6000-------squared error: 3.9131 parameter: [18.398       0.67757511 -1.9565555
9 -0.163001  ]
Round6001-------squared error: 3.9131 parameter: [18.398       0.67757212 -1.9565583
1 -0.16300054]
Round6002-------squared error: 3.9131 parameter: [18.398       0.67756912 -1.9565610
2 -0.16300008]
Round6003-------squared error: 3.9131 parameter: [18.398       0.67756613 -1.9565637
2 -0.16299962]
Round6004-------squared error: 3.9131 parameter: [18.398       0.67756314 -1.9565664
3 -0.16299917]
Round6005-------squared error: 3.9131 parameter: [18.398       0.67756016 -1.9565691
3 -0.16299871]
Round6006-------squared error: 3.9131 parameter: [18.398       0.67755718 -1.9565718
3 -0.16299826]
Round6007-------squared error: 3.9131 parameter: [18.398       0.6775542  -1.9565745
3 -0.1629978 ]
Round6008-------squared error: 3.9131 parameter: [18.398       0.67755122 -1.9565772
2 -0.16299735]
Round6009-------squared error: 3.9131 parameter: [18.398       0.67754825 -1.9565799
1 -0.16299689]
Round6010-------squared error: 3.9131 parameter: [18.398       0.67754528 -1.9565826
-0.16299644]
Round6011-------squared error: 3.9131 parameter: [18.398       0.67754231 -1.9565852
9 -0.16299599]
Round6012-------squared error: 3.9131 parameter: [18.398       0.67753935 -1.9565879
7 -0.16299553]
Round6013-------squared error: 3.9131 parameter: [18.398       0.67753639 -1.9565906
5 -0.16299508]
Round6014-------squared error: 3.9131 parameter: [18.398       0.67753343 -1.9565933
3 -0.16299463]
Round6015-------squared error: 3.9131 parameter: [18.398       0.67753047 -1.9565960
1 -0.16299418]
Round6016-------squared error: 3.9131 parameter: [18.398       0.67752752 -1.9565986
8 -0.16299373]
```

```
Round6017-------squared error: 3.9131 parameter: [18.398       0.67752457 -1.9566013
5 -0.16299328]
Round6018-------squared error: 3.9131 parameter: [18.398       0.67752162 -1.9566040
2 -0.16299283]
Round6019-------squared error: 3.9131 parameter: [18.398       0.67751868 -1.9566066
8 -0.16299238]
Round6020-------squared error: 3.9131 parameter: [18.398       0.67751574 -1.9566093
5 -0.16299193]
Round6021-------squared error: 3.9131 parameter: [18.398       0.6775128  -1.9566120
1 -0.16299148]
Round6022-------squared error: 3.9131 parameter: [18.398       0.67750986 -1.9566146
7 -0.16299103]
Round6023-------squared error: 3.9131 parameter: [18.398       0.67750693 -1.9566173
2 -0.16299058]
Round6024-------squared error: 3.9131 parameter: [18.398       0.677504   -1.9566199
7 -0.16299014]
Round6025-------squared error: 3.9131 parameter: [18.398       0.67750107 -1.9566226
2 -0.16298969]
Round6026-------squared error: 3.9131 parameter: [18.398       0.67749815 -1.9566252
7 -0.16298924]
Round6027-------squared error: 3.9131 parameter: [18.398       0.67749523 -1.9566279
2 -0.1629888 ]
Round6028-------squared error: 3.9131 parameter: [18.398       0.67749231 -1.9566305
6 -0.16298835]
Round6029-------squared error: 3.9131 parameter: [18.398       0.67748939 -1.9566332
-0.1629879 ]
Round6030-------squared error: 3.9131 parameter: [18.398       0.67748648 -1.9566358
4 -0.16298746]
Round6031-------squared error: 3.9131 parameter: [18.398       0.67748357 -1.9566384
7 -0.16298702]
Round6032-------squared error: 3.9131 parameter: [18.398       0.67748066 -1.9566411
1 -0.16298657]
Round6033-------squared error: 3.9131 parameter: [18.398       0.67747775 -1.9566437
4 -0.16298613]
Round6034-------squared error: 3.9131 parameter: [18.398       0.67747485 -1.9566463
6 -0.16298568]
Round6035-------squared error: 3.9131 parameter: [18.398       0.67747195 -1.9566489
9 -0.16298524]
Round6036-------squared error: 3.9131 parameter: [18.398       0.67746906 -1.9566516
1 -0.1629848 ]
Round6037-------squared error: 3.9131 parameter: [18.398       0.67746616 -1.9566542
3 -0.16298436]
Round6038-------squared error: 3.9131 parameter: [18.398       0.67746327 -1.9566568
5 -0.16298392]
Round6039-------squared error: 3.9131 parameter: [18.398       0.67746038 -1.9566594
6 -0.16298347]
Round6040-------squared error: 3.9131 parameter: [18.398       0.6774575  -1.9566620
7 -0.16298303]
Round6041-------squared error: 3.9131 parameter: [18.398       0.67745461 -1.9566646
8 -0.16298259]
Round6042-------squared error: 3.9131 parameter: [18.398       0.67745173 -1.9566672
9 -0.16298215]
Round6043-------squared error: 3.9131 parameter: [18.398       0.67744886 -1.9566699
-0.16298171]
Round6044-------squared error: 3.9131 parameter: [18.398       0.67744598 -1.9566725
-0.16298128]
Round6045-------squared error: 3.9131 parameter: [18.398       0.67744311 -1.9566751
-0.16298084]
Round6046-------squared error: 3.9131 parameter: [18.398       0.67744024 -1.9566777
-0.1629804 ]
Round6047-------squared error: 3.9131 parameter: [18.398       0.67743738 -1.9566802
9 -0.16297996]
Round6048-------squared error: 3.9131 parameter: [18.398       0.67743451 -1.9566828
8 -0.16297952]
```

```
Round6049-------squared error: 3.9131 parameter: [18.398       0.67743165 -1.9566854
7 -0.16297909]
Round6050-------squared error: 3.9131 parameter: [18.398       0.67742879 -1.9566880
6 -0.16297865]
Round6051-------squared error: 3.9131 parameter: [18.398       0.67742594 -1.9566906
4 -0.16297821]
Round6052-------squared error: 3.9131 parameter: [18.398       0.67742309 -1.9566932
3 -0.16297778]
Round6053-------squared error: 3.9131 parameter: [18.398       0.67742024 -1.9566958
1 -0.16297734]
Round6054-------squared error: 3.9131 parameter: [18.398       0.67741739 -1.9566983
8 -0.16297691]
Round6055-------squared error: 3.9131 parameter: [18.398       0.67741455 -1.9567009
6 -0.16297647]
Round6056-------squared error: 3.9131 parameter: [18.398       0.67741171 -1.9567035
3 -0.16297604]
Round6057-------squared error: 3.9131 parameter: [18.398       0.67740887 -1.9567061
-0.16297561]
Round6058-------squared error: 3.9131 parameter: [18.398       0.67740603 -1.9567086
7 -0.16297517]
Round6059-------squared error: 3.9131 parameter: [18.398       0.6774032  -1.9567112
3 -0.16297474]
Round6060-------squared error: 3.9131 parameter: [18.398       0.67740037 -1.9567138
-0.16297431]
Round6061-------squared error: 3.9131 parameter: [18.398       0.67739754 -1.9567163
6 -0.16297388]
Round6062-------squared error: 3.9131 parameter: [18.398       0.67739472 -1.9567189
1 -0.16297345]
Round6063-------squared error: 3.9131 parameter: [18.398       0.67739189 -1.9567214
7 -0.16297301]
Round6064-------squared error: 3.9131 parameter: [18.398       0.67738907 -1.9567240
2 -0.16297258]
Round6065-------squared error: 3.9131 parameter: [18.398       0.67738626 -1.9567265
7 -0.16297215]
Round6066-------squared error: 3.9131 parameter: [18.398       0.67738344 -1.9567291
2 -0.16297172]
Round6067-------squared error: 3.9131 parameter: [18.398       0.67738063 -1.9567316
6 -0.16297129]
Round6068-------squared error: 3.9131 parameter: [18.398       0.67737782 -1.9567342
1 -0.16297087]
Round6069-------squared error: 3.9131 parameter: [18.398       0.67737502 -1.9567367
5 -0.16297044]
Round6070-------squared error: 3.9131 parameter: [18.398       0.67737221 -1.9567392
8 -0.16297001]
Round6071-------squared error: 3.9131 parameter: [18.398       0.67736941 -1.9567418
2 -0.16296958]
Round6072-------squared error: 3.9131 parameter: [18.398       0.67736662 -1.9567443
5 -0.16296915]
Round6073-------squared error: 3.9131 parameter: [18.398       0.67736382 -1.9567468
8 -0.16296873]
Round6074-------squared error: 3.9131 parameter: [18.398       0.67736103 -1.9567494
1 -0.1629683 ]
Round6075-------squared error: 3.9131 parameter: [18.398       0.67735824 -1.9567519
4 -0.16296787]
Round6076-------squared error: 3.9131 parameter: [18.398       0.67735545 -1.9567544
6 -0.16296745]
Round6077-------squared error: 3.9131 parameter: [18.398       0.67735267 -1.9567569
8 -0.16296702]
Round6078-------squared error: 3.9131 parameter: [18.398       0.67734988 -1.9567595
-0.1629666 ]
Round6079-------squared error: 3.9131 parameter: [18.398       0.67734711 -1.9567620
2 -0.16296617]
Round6080-------squared error: 3.9131 parameter: [18.398       0.67734433 -1.9567645
3 -0.16296575]
```

```
Round6081-------squared error: 3.9131 parameter: [18.398       0.67734156 -1.9567670
4 -0.16296533]
Round6082-------squared error: 3.9131 parameter: [18.398       0.67733878 -1.9567695
5 -0.1629649 ]
Round6083-------squared error: 3.9131 parameter: [18.398       0.67733602 -1.9567720
6 -0.16296448]
Round6084-------squared error: 3.9131 parameter: [18.398       0.67733325 -1.9567745
6 -0.16296406]
Round6085-------squared error: 3.9131 parameter: [18.398       0.67733049 -1.9567770
6 -0.16296364]
Round6086-------squared error: 3.9131 parameter: [18.398       0.67732773 -1.9567795
6 -0.16296321]
Round6087-------squared error: 3.9131 parameter: [18.398       0.67732497 -1.9567820
6 -0.16296279]
Round6088-------squared error: 3.9131 parameter: [18.398       0.67732221 -1.9567845
5 -0.16296237]
Round6089-------squared error: 3.9131 parameter: [18.398       0.67731946 -1.9567870
4 -0.16296195]
Round6090-------squared error: 3.9131 parameter: [18.398       0.67731671 -1.9567895
3 -0.16296153]
Round6091-------squared error: 3.9131 parameter: [18.398       0.67731396 -1.9567920
2 -0.16296111]
Round6092-------squared error: 3.9131 parameter: [18.398       0.67731122 -1.9567945
-0.16296069]
Round6093-------squared error: 3.9131 parameter: [18.398       0.67730848 -1.9567969
9 -0.16296027]
Round6094-------squared error: 3.9131 parameter: [18.398       0.67730574 -1.9567994
7 -0.16295986]
Round6095-------squared error: 3.9131 parameter: [18.398       0.677303   -1.9568019
4 -0.16295944]
Round6096-------squared error: 3.9131 parameter: [18.398       0.67730027 -1.9568044
2 -0.16295902]
Round6097-------squared error: 3.9131 parameter: [18.398       0.67729754 -1.9568068
9 -0.1629586 ]
Round6098-------squared error: 3.9131 parameter: [18.398       0.67729481 -1.9568093
6 -0.16295819]
Round6099-------squared error: 3.9131 parameter: [18.398       0.67729208 -1.9568118
3 -0.16295777]
Round6100-------squared error: 3.9131 parameter: [18.398       0.67728936 -1.9568142
9 -0.16295735]
Round6101-------squared error: 3.9131 parameter: [18.398       0.67728664 -1.9568167
6 -0.16295694]
Round6102-------squared error: 3.9131 parameter: [18.398       0.67728392 -1.9568192
2 -0.16295652]
Round6103-------squared error: 3.9131 parameter: [18.398       0.67728121 -1.9568216
8 -0.16295611]
Round6104-------squared error: 3.9131 parameter: [18.398       0.67727849 -1.9568241
3 -0.16295569]
Round6105-------squared error: 3.9131 parameter: [18.398       0.67727578 -1.9568265
9 -0.16295528]
Round6106-------squared error: 3.9131 parameter: [18.398       0.67727307 -1.9568290
4 -0.16295487]
Round6107-------squared error: 3.9131 parameter: [18.398       0.67727037 -1.9568314
9 -0.16295445]
Round6108-------squared error: 3.9131 parameter: [18.398       0.67726767 -1.9568339
3 -0.16295404]
Round6109-------squared error: 3.9131 parameter: [18.398       0.67726497 -1.9568363
8 -0.16295363]
Round6110-------squared error: 3.9131 parameter: [18.398       0.67726227 -1.9568388
2 -0.16295322]
Round6111-------squared error: 3.9131 parameter: [18.398       0.67725957 -1.9568412
6 -0.16295281]
Round6112-------squared error: 3.9131 parameter: [18.398       0.67725688 -1.9568437
-0.16295239]
```

```
Round6113-------squared error: 3.9131 parameter: [18.398       0.67725419 -1.9568461
3 -0.16295198]
Round6114-------squared error: 3.9131 parameter: [18.398       0.67725151 -1.9568485
6 -0.16295157]
Round6115-------squared error: 3.9131 parameter: [18.398       0.67724882 -1.9568509
9 -0.16295116]
Round6116-------squared error: 3.9131 parameter: [18.398       0.67724614 -1.9568534
2 -0.16295075]
Round6117-------squared error: 3.9131 parameter: [18.398       0.67724346 -1.9568558
5 -0.16295034]
Round6118-------squared error: 3.9131 parameter: [18.398       0.67724078 -1.9568582
7 -0.16294994]
Round6119-------squared error: 3.9131 parameter: [18.398       0.67723811 -1.9568606
9 -0.16294953]
Round6120-------squared error: 3.9131 parameter: [18.398       0.67723544 -1.9568631
1 -0.16294912]
Round6121-------squared error: 3.9131 parameter: [18.398       0.67723277 -1.9568655
3 -0.16294871]
Round6122-------squared error: 3.9131 parameter: [18.398       0.6772301  -1.9568679
4 -0.1629483 ]
Round6123-------squared error: 3.9131 parameter: [18.398       0.67722744 -1.9568703
5 -0.1629479 ]
Round6124-------squared error: 3.9131 parameter: [18.398       0.67722478 -1.9568727
6 -0.16294749]
Round6125-------squared error: 3.9131 parameter: [18.398       0.67722212 -1.9568751
7 -0.16294709]
Round6126-------squared error: 3.9131 parameter: [18.398       0.67721946 -1.9568775
7 -0.16294668]
Round6127-------squared error: 3.9131 parameter: [18.398       0.67721681 -1.9568799
7 -0.16294627]
Round6128-------squared error: 3.9131 parameter: [18.398       0.67721416 -1.9568823
7 -0.16294587]
Round6129-------squared error: 3.9131 parameter: [18.398       0.67721151 -1.9568847
7 -0.16294546]
Round6130-------squared error: 3.9131 parameter: [18.398       0.67720887 -1.9568871
7 -0.16294506]
Round6131-------squared error: 3.9131 parameter: [18.398       0.67720622 -1.9568895
6 -0.16294466]
Round6132-------squared error: 3.9131 parameter: [18.398       0.67720358 -1.9568919
5 -0.16294425]
Round6133-------squared error: 3.9131 parameter: [18.398       0.67720094 -1.9568943
4 -0.16294385]
Round6134-------squared error: 3.9131 parameter: [18.398       0.67719831 -1.9568967
3 -0.16294345]
Round6135-------squared error: 3.9131 parameter: [18.398       0.67719568 -1.9568991
1 -0.16294305]
Round6136-------squared error: 3.9131 parameter: [18.398       0.67719304 -1.9569014
9 -0.16294264]
Round6137-------squared error: 3.9131 parameter: [18.398       0.67719042 -1.9569038
7 -0.16294224]
Round6138-------squared error: 3.9131 parameter: [18.398       0.67718779 -1.9569062
5 -0.16294184]
Round6139-------squared error: 3.9131 parameter: [18.398       0.67718517 -1.9569086
2 -0.16294144]
Round6140-------squared error: 3.9131 parameter: [18.398       0.67718255 -1.9569109
9 -0.16294104]
Round6141-------squared error: 3.9131 parameter: [18.398       0.67717993 -1.9569133
6 -0.16294064]
Round6142-------squared error: 3.9131 parameter: [18.398       0.67717731 -1.9569157
3 -0.16294024]
Round6143-------squared error: 3.9131 parameter: [18.398       0.6771747  -1.9569181
-0.16293984]
Round6144-------squared error: 3.9131 parameter: [18.398       0.67717209 -1.9569204
6 -0.16293944]
```

```
Round6145-------squared error: 3.9131 parameter: [18.398       0.67716948 -1.9569228
2 -0.16293905]
Round6146-------squared error: 3.9131 parameter: [18.398       0.67716688 -1.9569251
8 -0.16293865]
Round6147-------squared error: 3.9131 parameter: [18.398       0.67716428 -1.9569275
4 -0.16293825]
Round6148-------squared error: 3.9131 parameter: [18.398       0.67716168 -1.9569298
9 -0.16293785]
Round6149-------squared error: 3.9131 parameter: [18.398       0.67715908 -1.9569322
4 -0.16293746]
Round6150-------squared error: 3.9131 parameter: [18.398       0.67715648 -1.9569345
9 -0.16293706]
Round6151-------squared error: 3.9131 parameter: [18.398       0.67715389 -1.9569369
4 -0.16293666]
Round6152-------squared error: 3.9131 parameter: [18.398       0.6771513  -1.9569392
8 -0.16293627]
Round6153-------squared error: 3.9131 parameter: [18.398       0.67714871 -1.9569416
3 -0.16293587]
Round6154-------squared error: 3.9131 parameter: [18.398       0.67714613 -1.9569439
7 -0.16293548]
Round6155-------squared error: 3.9131 parameter: [18.398       0.67714354 -1.9569463
1 -0.16293508]
Round6156-------squared error: 3.9131 parameter: [18.398       0.67714096 -1.9569486
4 -0.16293469]
Round6157-------squared error: 3.9131 parameter: [18.398       0.67713838 -1.9569509
8 -0.1629343 ]
Round6158-------squared error: 3.9131 parameter: [18.398       0.67713581 -1.9569533
1 -0.1629339 ]
Round6159-------squared error: 3.9131 parameter: [18.398       0.67713324 -1.9569556
4 -0.16293351]
Round6160-------squared error: 3.9131 parameter: [18.398       0.67713067 -1.9569579
6 -0.16293312]
Round6161-------squared error: 3.9131 parameter: [18.398       0.6771281  -1.9569602
9 -0.16293272]
Round6162-------squared error: 3.9131 parameter: [18.398       0.67712553 -1.9569626
1 -0.16293233]
Round6163-------squared error: 3.9131 parameter: [18.398       0.67712297 -1.9569649
3 -0.16293194]
Round6164-------squared error: 3.9131 parameter: [18.398       0.67712041 -1.9569672
5 -0.16293155]
Round6165-------squared error: 3.9131 parameter: [18.398       0.67711785 -1.9569695
7 -0.16293116]
Round6166-------squared error: 3.9131 parameter: [18.398       0.6771153  -1.9569718
8 -0.16293077]
Round6167-------squared error: 3.9131 parameter: [18.398       0.67711274 -1.9569741
9 -0.16293038]
Round6168-------squared error: 3.9131 parameter: [18.398       0.67711019 -1.9569765
-0.16292999]
Round6169-------squared error: 3.9131 parameter: [18.398       0.67710764 -1.9569788
1 -0.1629296 ]
Round6170-------squared error: 3.9131 parameter: [18.398       0.6771051  -1.9569811
1 -0.16292921]
Round6171-------squared error: 3.9131 parameter: [18.398       0.67710255 -1.9569834
1 -0.16292882]
Round6172-------squared error: 3.9131 parameter: [18.398       0.67710001 -1.9569857
1 -0.16292844]
Round6173-------squared error: 3.9131 parameter: [18.398       0.67709747 -1.9569880
1 -0.16292805]
Round6174-------squared error: 3.9131 parameter: [18.398       0.67709494 -1.9569903
1 -0.16292766]
Round6175-------squared error: 3.9131 parameter: [18.398       0.67709241 -1.9569926
-0.16292727]
Round6176-------squared error: 3.9131 parameter: [18.398       0.67708987 -1.9569948
9 -0.16292689]
```

```
Round6177-------squared error: 3.9131 parameter: [18.398       0.67708735 -1.9569971
8 -0.1629265 ]
Round6178-------squared error: 3.9131 parameter: [18.398       0.67708482 -1.9569994
7 -0.16292611]
Round6179-------squared error: 3.9131 parameter: [18.398       0.6770823  -1.9570017
6 -0.16292573]
Round6180-------squared error: 3.9131 parameter: [18.398       0.67707977 -1.9570040
4 -0.16292534]
Round6181-------squared error: 3.9131 parameter: [18.398       0.67707726 -1.9570063
2 -0.16292496]
Round6182-------squared error: 3.9131 parameter: [18.398       0.67707474 -1.9570086
-0.16292458]
Round6183-------squared error: 3.9131 parameter: [18.398       0.67707222 -1.9570108
7 -0.16292419]
Round6184-------squared error: 3.9131 parameter: [18.398       0.67706971 -1.9570131
5 -0.16292381]
Round6185-------squared error: 3.9131 parameter: [18.398       0.6770672  -1.9570154
2 -0.16292342]
Round6186-------squared error: 3.9131 parameter: [18.398       0.6770647  -1.9570176
9 -0.16292304]
Round6187-------squared error: 3.9131 parameter: [18.398       0.67706219 -1.9570199
6 -0.16292266]
Round6188-------squared error: 3.9131 parameter: [18.398       0.67705969 -1.9570222
2 -0.16292228]
Round6189-------squared error: 3.9131 parameter: [18.398       0.67705719 -1.9570244
8 -0.1629219 ]
Round6190-------squared error: 3.9131 parameter: [18.398       0.67705469 -1.9570267
4 -0.16292151]
Round6191-------squared error: 3.9131 parameter: [18.398       0.6770522  -1.957029
-0.16292113]
Round6192-------squared error: 3.9131 parameter: [18.398       0.67704971 -1.9570312
6 -0.16292075]
Round6193-------squared error: 3.9131 parameter: [18.398       0.67704722 -1.9570335
1 -0.16292037]
Round6194-------squared error: 3.9131 parameter: [18.398       0.67704473 -1.9570357
7 -0.16291999]
Round6195-------squared error: 3.9131 parameter: [18.398       0.67704224 -1.9570380
2 -0.16291961]
Round6196-------squared error: 3.9131 parameter: [18.398       0.67703976 -1.9570402
6 -0.16291923]
Round6197-------squared error: 3.9131 parameter: [18.398       0.67703728 -1.9570425
1 -0.16291885]
Round6198-------squared error: 3.9131 parameter: [18.398       0.6770348  -1.9570447
5 -0.16291848]
Round6199-------squared error: 3.9131 parameter: [18.398       0.67703233 -1.9570469
9 -0.1629181 ]
Round6200-------squared error: 3.9131 parameter: [18.398       0.67702985 -1.9570492
3 -0.16291772]
Round6201-------squared error: 3.9131 parameter: [18.398       0.67702738 -1.9570514
7 -0.16291734]
Round6202-------squared error: 3.9131 parameter: [18.398       0.67702491 -1.9570537
-0.16291697]
Round6203-------squared error: 3.9131 parameter: [18.398       0.67702245 -1.9570559
4 -0.16291659]
Round6204-------squared error: 3.9131 parameter: [18.398       0.67701998 -1.9570581
7 -0.16291621]
Round6205-------squared error: 3.9131 parameter: [18.398       0.67701752 -1.9570604
-0.16291584]
Round6206-------squared error: 3.9131 parameter: [18.398       0.67701506 -1.9570626
2 -0.16291546]
Round6207-------squared error: 3.9131 parameter: [18.398       0.67701261 -1.9570648
5 -0.16291509]
Round6208-------squared error: 3.9131 parameter: [18.398       0.67701015 -1.9570670
7 -0.16291471]
```

```
Round6209-------squared error: 3.9131 parameter: [18.398       0.6770077  -1.9570692
9 -0.16291434]
Round6210-------squared error: 3.9131 parameter: [18.398       0.67700525 -1.9570715
1 -0.16291396]
Round6211-------squared error: 3.9131 parameter: [18.398       0.6770028  -1.9570737
2 -0.16291359]
Round6212-------squared error: 3.9131 parameter: [18.398       0.67700036 -1.9570759
3 -0.16291321]
Round6213-------squared error: 3.9131 parameter: [18.398       0.67699792 -1.9570781
5 -0.16291284]
Round6214-------squared error: 3.9131 parameter: [18.398       0.67699548 -1.9570803
5 -0.16291247]
Round6215-------squared error: 3.9131 parameter: [18.398       0.67699304 -1.9570825
6 -0.1629121 ]
Round6216-------squared error: 3.9131 parameter: [18.398       0.6769906  -1.9570847
7 -0.16291172]
Round6217-------squared error: 3.9131 parameter: [18.398       0.67698817 -1.9570869
7 -0.16291135]
Round6218-------squared error: 3.9131 parameter: [18.398       0.67698574 -1.9570891
7 -0.16291098]
Round6219-------squared error: 3.9131 parameter: [18.398       0.67698331 -1.9570913
7 -0.16291061]
Round6220-------squared error: 3.9131 parameter: [18.398       0.67698089 -1.9570935
6 -0.16291024]
Round6221-------squared error: 3.9131 parameter: [18.398       0.67697846 -1.9570957
6 -0.16290987]
Round6222-------squared error: 3.9131 parameter: [18.398       0.67697604 -1.9570979
5 -0.1629095 ]
Round6223-------squared error: 3.9131 parameter: [18.398       0.67697362 -1.9571001
4 -0.16290913]
Round6224-------squared error: 3.9131 parameter: [18.398       0.6769712  -1.9571023
3 -0.16290876]
Round6225-------squared error: 3.9131 parameter: [18.398       0.67696879 -1.9571045
1 -0.16290839]
Round6226-------squared error: 3.9131 parameter: [18.398       0.67696638 -1.9571067
-0.16290802]
Round6227-------squared error: 3.9131 parameter: [18.398       0.67696397 -1.9571088
8 -0.16290766]
Round6228-------squared error: 3.9131 parameter: [18.398       0.67696156 -1.9571110
6 -0.16290729]
Round6229-------squared error: 3.9131 parameter: [18.398       0.67695916 -1.9571132
4 -0.16290692]
Round6230-------squared error: 3.9131 parameter: [18.398       0.67695675 -1.9571154
1 -0.16290655]
Round6231-------squared error: 3.9131 parameter: [18.398       0.67695435 -1.9571175
9 -0.16290619]
Round6232-------squared error: 3.9131 parameter: [18.398       0.67695195 -1.9571197
6 -0.16290582]
Round6233-------squared error: 3.9131 parameter: [18.398       0.67694956 -1.9571219
3 -0.16290546]
Round6234-------squared error: 3.9131 parameter: [18.398       0.67694717 -1.9571240
9 -0.16290509]
Round6235-------squared error: 3.9131 parameter: [18.398       0.67694477 -1.9571262
6 -0.16290473]
Round6236-------squared error: 3.9131 parameter: [18.398       0.67694238 -1.9571284
2 -0.16290436]
Round6237-------squared error: 3.9131 parameter: [18.398       0.67694    -1.9571305
8 -0.162904  ]
Round6238-------squared error: 3.9131 parameter: [18.398       0.67693761 -1.9571327
4 -0.16290363]
Round6239-------squared error: 3.9131 parameter: [18.398       0.67693523 -1.9571349
-0.16290327]
Round6240-------squared error: 3.9131 parameter: [18.398       0.67693285 -1.9571370
5 -0.1629029 ]
```

```
Round6241-------squared error: 3.9131 parameter: [18.398       0.67693047 -1.9571392
-0.16290254]
Round6242-------squared error: 3.9131 parameter: [18.398       0.6769281  -1.9571413
5 -0.16290218]
Round6243-------squared error: 3.9131 parameter: [18.398       0.67692573 -1.9571435
-0.16290182]
Round6244-------squared error: 3.9131 parameter: [18.398       0.67692336 -1.9571456
5 -0.16290145]
Round6245-------squared error: 3.9131 parameter: [18.398       0.67692099 -1.9571477
9 -0.16290109]
Round6246-------squared error: 3.9131 parameter: [18.398       0.67691862 -1.9571499
3 -0.16290073]
Round6247-------squared error: 3.9131 parameter: [18.398       0.67691626 -1.9571520
7 -0.16290037]
Round6248-------squared error: 3.9131 parameter: [18.398       0.6769139  -1.9571542
1 -0.16290001]
Round6249-------squared error: 3.9131 parameter: [18.398       0.67691154 -1.9571563
5 -0.16289965]
Round6250-------squared error: 3.9131 parameter: [18.398       0.67690918 -1.9571584
8 -0.16289929]
Round6251-------squared error: 3.9131 parameter: [18.398       0.67690683 -1.9571606
1 -0.16289893]
Round6252-------squared error: 3.9131 parameter: [18.398       0.67690447 -1.9571627
4 -0.16289857]
Round6253-------squared error: 3.9131 parameter: [18.398       0.67690212 -1.9571648
7 -0.16289821]
Round6254-------squared error: 3.9131 parameter: [18.398       0.67689978 -1.957167
-0.16289785]
Round6255-------squared error: 3.9131 parameter: [18.398       0.67689743 -1.9571691
2 -0.16289749]
Round6256-------squared error: 3.9131 parameter: [18.398       0.67689509 -1.9571712
4 -0.16289714]
Round6257-------squared error: 3.9131 parameter: [18.398       0.67689275 -1.9571733
6 -0.16289678]
Round6258-------squared error: 3.9131 parameter: [18.398       0.67689041 -1.9571754
8 -0.16289642]
Round6259-------squared error: 3.9131 parameter: [18.398       0.67688807 -1.9571775
9 -0.16289606]
Round6260-------squared error: 3.9131 parameter: [18.398       0.67688574 -1.9571797
1 -0.16289571]
Round6261-------squared error: 3.9131 parameter: [18.398       0.6768834  -1.9571818
2 -0.16289535]
Round6262-------squared error: 3.9131 parameter: [18.398       0.67688107 -1.9571839
3 -0.162895  ]
Round6263-------squared error: 3.9131 parameter: [18.398       0.67687875 -1.9571860
3 -0.16289464]
Round6264-------squared error: 3.9131 parameter: [18.398       0.67687642 -1.9571881
4 -0.16289429]
Round6265-------squared error: 3.9131 parameter: [18.398       0.6768741  -1.9571902
4 -0.16289393]
Round6266-------squared error: 3.9131 parameter: [18.398       0.67687178 -1.9571923
4 -0.16289358]
Round6267-------squared error: 3.9131 parameter: [18.398       0.67686946 -1.9571944
4 -0.16289322]
Round6268-------squared error: 3.9131 parameter: [18.398       0.67686714 -1.9571965
4 -0.16289287]
Round6269-------squared error: 3.9131 parameter: [18.398       0.67686483 -1.9571986
3 -0.16289251]
Round6270-------squared error: 3.9131 parameter: [18.398       0.67686252 -1.9572007
3 -0.16289216]
Round6271-------squared error: 3.9131 parameter: [18.398       0.67686021 -1.9572028
2 -0.16289181]
Round6272-------squared error: 3.9131 parameter: [18.398       0.6768579  -1.9572049
1 -0.16289146]
```

```
Round6273-------squared error: 3.9131 parameter: [18.398       0.67685559 -1.9572069
9 -0.1628911 ]
Round6274-------squared error: 3.9131 parameter: [18.398       0.67685329 -1.9572090
8 -0.16289075]
Round6275-------squared error: 3.9131 parameter: [18.398       0.67685099 -1.9572111
6 -0.1628904 ]
Round6276-------squared error: 3.9131 parameter: [18.398       0.67684869 -1.9572132
4 -0.16289005]
Round6277-------squared error: 3.9131 parameter: [18.398       0.67684639 -1.9572153
2 -0.1628897 ]
Round6278-------squared error: 3.9131 parameter: [18.398       0.6768441  -1.9572174
-0.16288935]
Round6279-------squared error: 3.9131 parameter: [18.398       0.67684181 -1.9572194
7 -0.162889  ]
Round6280-------squared error: 3.9131 parameter: [18.398       0.67683952 -1.9572215
5 -0.16288865]
Round6281-------squared error: 3.9131 parameter: [18.398       0.67683723 -1.9572236
2 -0.1628883 ]
Round6282-------squared error: 3.9131 parameter: [18.398       0.67683494 -1.9572256
9 -0.16288795]
Round6283-------squared error: 3.9131 parameter: [18.398       0.67683266 -1.9572277
5 -0.1628876 ]
Round6284-------squared error: 3.9131 parameter: [18.398       0.67683038 -1.9572298
2 -0.16288725]
Round6285-------squared error: 3.9131 parameter: [18.398       0.6768281  -1.9572318
8 -0.16288691]
Round6286-------squared error: 3.9131 parameter: [18.398       0.67682583 -1.9572339
4 -0.16288656]
Round6287-------squared error: 3.9131 parameter: [18.398       0.67682355 -1.957236
-0.16288621]
Round6288-------squared error: 3.9131 parameter: [18.398       0.67682128 -1.9572380
6 -0.16288586]
Round6289-------squared error: 3.9131 parameter: [18.398       0.67681901 -1.9572401
2 -0.16288552]
Round6290-------squared error: 3.9131 parameter: [18.398       0.67681674 -1.9572421
7 -0.16288517]
Round6291-------squared error: 3.9131 parameter: [18.398       0.67681447 -1.9572442
2 -0.16288482]
Round6292-------squared error: 3.9131 parameter: [18.398       0.67681221 -1.9572462
7 -0.16288448]
Round6293-------squared error: 3.9131 parameter: [18.398       0.67680995 -1.9572483
2 -0.16288413]
Round6294-------squared error: 3.9131 parameter: [18.398       0.67680769 -1.9572503
6 -0.16288379]
Round6295-------squared error: 3.9131 parameter: [18.398       0.67680543 -1.9572524
-0.16288344]
Round6296-------squared error: 3.9131 parameter: [18.398       0.67680318 -1.9572544
5 -0.1628831 ]
Round6297-------squared error: 3.9131 parameter: [18.398       0.67680093 -1.9572564
9 -0.16288275]
Round6298-------squared error: 3.9131 parameter: [18.398       0.67679868 -1.9572585
2 -0.16288241]
Round6299-------squared error: 3.9131 parameter: [18.398       0.67679643 -1.9572605
6 -0.16288207]
Round6300-------squared error: 3.9131 parameter: [18.398       0.67679418 -1.9572625
9 -0.16288172]
Round6301-------squared error: 3.9131 parameter: [18.398       0.67679194 -1.9572646
2 -0.16288138]
Round6302-------squared error: 3.9131 parameter: [18.398       0.6767897  -1.9572666
5 -0.16288104]
Round6303-------squared error: 3.9131 parameter: [18.398       0.67678746 -1.9572686
8 -0.1628807 ]
Round6304-------squared error: 3.9131 parameter: [18.398       0.67678522 -1.9572707
1 -0.16288036]
```

```
Round6305-------squared error: 3.9131 parameter: [18.398       0.67678298 -1.9572727
3 -0.16288001]
Round6306-------squared error: 3.9131 parameter: [18.398       0.67678075 -1.9572747
5 -0.16287967]
Round6307-------squared error: 3.9131 parameter: [18.398       0.67677852 -1.9572767
7 -0.16287933]
Round6308-------squared error: 3.9131 parameter: [18.398       0.67677629 -1.9572787
9 -0.16287899]
Round6309-------squared error: 3.9131 parameter: [18.398       0.67677406 -1.9572808
-0.16287865]
Round6310-------squared error: 3.9131 parameter: [18.398       0.67677184 -1.9572828
2 -0.16287831]
Round6311-------squared error: 3.9131 parameter: [18.398       0.67676962 -1.9572848
3 -0.16287797]
Round6312-------squared error: 3.9131 parameter: [18.398       0.6767674  -1.9572868
4 -0.16287763]
Round6313-------squared error: 3.9131 parameter: [18.398       0.67676518 -1.9572888
5 -0.16287729]
Round6314-------squared error: 3.9131 parameter: [18.398       0.67676296 -1.9572908
5 -0.16287696]
Round6315-------squared error: 3.9131 parameter: [18.398       0.67676075 -1.9572928
6 -0.16287662]
Round6316-------squared error: 3.9131 parameter: [18.398       0.67675854 -1.9572948
6 -0.16287628]
Round6317-------squared error: 3.9131 parameter: [18.398       0.67675633 -1.9572968
6 -0.16287594]
Round6318-------squared error: 3.9131 parameter: [18.398       0.67675412 -1.9572988
6 -0.16287561]
Round6319-------squared error: 3.9131 parameter: [18.398       0.67675191 -1.9573008
6 -0.16287527]
Round6320-------squared error: 3.9131 parameter: [18.398       0.67674971 -1.9573028
5 -0.16287493]
Round6321-------squared error: 3.9131 parameter: [18.398       0.67674751 -1.9573048
4 -0.1628746 ]
Round6322-------squared error: 3.9131 parameter: [18.398       0.67674531 -1.9573068
3 -0.16287426]
Round6323-------squared error: 3.9131 parameter: [18.398       0.67674311 -1.9573088
2 -0.16287392]
Round6324-------squared error: 3.9131 parameter: [18.398       0.67674092 -1.9573108
1 -0.16287359]
Round6325-------squared error: 3.9131 parameter: [18.398       0.67673873 -1.9573128
-0.16287325]
Round6326-------squared error: 3.9131 parameter: [18.398       0.67673654 -1.9573147
8 -0.16287292]
Round6327-------squared error: 3.9131 parameter: [18.398       0.67673435 -1.9573167
6 -0.16287259]
Round6328-------squared error: 3.9131 parameter: [18.398       0.67673216 -1.9573187
4 -0.16287225]
Round6329-------squared error: 3.9131 parameter: [18.398       0.67672998 -1.9573207
2 -0.16287192]
Round6330-------squared error: 3.9131 parameter: [18.398       0.6767278  -1.9573226
9 -0.16287158]
Round6331-------squared error: 3.9131 parameter: [18.398       0.67672562 -1.9573246
7 -0.16287125]
Round6332-------squared error: 3.9131 parameter: [18.398       0.67672344 -1.9573266
4 -0.16287092]
Round6333-------squared error: 3.9131 parameter: [18.398       0.67672126 -1.9573286
1 -0.16287059]
Round6334-------squared error: 3.9131 parameter: [18.398       0.67671909 -1.9573305
8 -0.16287025]
Round6335-------squared error: 3.9131 parameter: [18.398       0.67671692 -1.9573325
4 -0.16286992]
Round6336-------squared error: 3.9131 parameter: [18.398       0.67671475 -1.9573345
1 -0.16286959]
```

```
Round6337-------squared error: 3.9131 parameter: [18.398       0.67671258 -1.9573364
7 -0.16286926]
Round6338-------squared error: 3.9131 parameter: [18.398       0.67671041 -1.9573384
3 -0.16286893]
Round6339-------squared error: 3.9131 parameter: [18.398       0.67670825 -1.9573403
9 -0.1628686 ]
Round6340-------squared error: 3.9131 parameter: [18.398       0.67670609 -1.9573423
4 -0.16286827]
Round6341-------squared error: 3.9131 parameter: [18.398       0.67670393 -1.9573443
-0.16286794]
Round6342-------squared error: 3.9131 parameter: [18.398       0.67670177 -1.9573462
5 -0.16286761]
Round6343-------squared error: 3.9131 parameter: [18.398       0.67669962 -1.9573482
-0.16286728]
Round6344-------squared error: 3.9131 parameter: [18.398       0.67669747 -1.9573501
5 -0.16286695]
Round6345-------squared error: 3.9131 parameter: [18.398       0.67669532 -1.9573521
-0.16286662]
Round6346-------squared error: 3.9131 parameter: [18.398       0.67669317 -1.9573540
4 -0.1628663 ]
Round6347-------squared error: 3.9131 parameter: [18.398       0.67669102 -1.9573559
9 -0.16286597]
Round6348-------squared error: 3.9131 parameter: [18.398       0.67668888 -1.9573579
3 -0.16286564]
Round6349-------squared error: 3.9131 parameter: [18.398       0.67668673 -1.9573598
7 -0.16286531]
Round6350-------squared error: 3.9131 parameter: [18.398       0.67668459 -1.9573618
1 -0.16286499]
Round6351-------squared error: 3.9131 parameter: [18.398       0.67668245 -1.9573637
4 -0.16286466]
Round6352-------squared error: 3.9131 parameter: [18.398       0.67668032 -1.9573656
8 -0.16286433]
Round6353-------squared error: 3.9131 parameter: [18.398       0.67667818 -1.9573676
1 -0.16286401]
Round6354-------squared error: 3.9131 parameter: [18.398       0.67667605 -1.9573695
4 -0.16286368]
Round6355-------squared error: 3.9131 parameter: [18.398       0.67667392 -1.9573714
7 -0.16286336]
Round6356-------squared error: 3.9131 parameter: [18.398       0.67667179 -1.9573733
9 -0.16286303]
Round6357-------squared error: 3.9131 parameter: [18.398       0.67666967 -1.9573753
2 -0.16286271]
Round6358-------squared error: 3.9131 parameter: [18.398       0.67666754 -1.9573772
4 -0.16286238]
Round6359-------squared error: 3.9131 parameter: [18.398       0.67666542 -1.9573791
6 -0.16286206]
Round6360-------squared error: 3.9131 parameter: [18.398       0.6766633  -1.9573810
8 -0.16286173]
Round6361-------squared error: 3.9131 parameter: [18.398       0.67666118 -1.957383
-0.16286141]
Round6362-------squared error: 3.9131 parameter: [18.398       0.67665907 -1.9573849
1 -0.16286109]
Round6363-------squared error: 3.9131 parameter: [18.398       0.67665695 -1.9573868
3 -0.16286076]
Round6364-------squared error: 3.9131 parameter: [18.398       0.67665484 -1.9573887
4 -0.16286044]
Round6365-------squared error: 3.9131 parameter: [18.398       0.67665273 -1.9573906
5 -0.16286012]
Round6366-------squared error: 3.9131 parameter: [18.398       0.67665062 -1.9573925
6 -0.1628598 ]
Round6367-------squared error: 3.9131 parameter: [18.398       0.67664852 -1.9573944
6 -0.16285948]
Round6368-------squared error: 3.9131 parameter: [18.398       0.67664641 -1.9573963
7 -0.16285915]
```

```
Round6369-------squared error: 3.9131 parameter: [18.398       0.67664431 -1.9573982
7 -0.16285883]
Round6370-------squared error: 3.9131 parameter: [18.398       0.67664221 -1.9574001
7 -0.16285851]
Round6371-------squared error: 3.9131 parameter: [18.398       0.67664012 -1.9574020
7 -0.16285819]
Round6372-------squared error: 3.9131 parameter: [18.398       0.67663802 -1.9574039
7 -0.16285787]
Round6373-------squared error: 3.9131 parameter: [18.398       0.67663593 -1.9574058
6 -0.16285755]
Round6374-------squared error: 3.9131 parameter: [18.398       0.67663383 -1.9574077
6 -0.16285723]
Round6375-------squared error: 3.9131 parameter: [18.398       0.67663175 -1.9574096
5 -0.16285691]
Round6376-------squared error: 3.9131 parameter: [18.398       0.67662966 -1.9574115
4 -0.1628566 ]
Round6377-------squared error: 3.9131 parameter: [18.398       0.67662757 -1.9574134
3 -0.16285628]
Round6378-------squared error: 3.9131 parameter: [18.398       0.67662549 -1.9574153
1 -0.16285596]
Round6379-------squared error: 3.9131 parameter: [18.398       0.67662341 -1.9574172
-0.16285564]
Round6380-------squared error: 3.9131 parameter: [18.398       0.67662133 -1.9574190
8 -0.16285532]
Round6381-------squared error: 3.9131 parameter: [18.398       0.67661925 -1.9574209
6 -0.16285501]
Round6382-------squared error: 3.9131 parameter: [18.398       0.67661717 -1.9574228
4 -0.16285469]
Round6383-------squared error: 3.9131 parameter: [18.398       0.6766151  -1.9574247
2 -0.16285437]
Round6384-------squared error: 3.9131 parameter: [18.398       0.67661303 -1.9574265
9 -0.16285406]
Round6385-------squared error: 3.9131 parameter: [18.398       0.67661096 -1.9574284
7 -0.16285374]
Round6386-------squared error: 3.9131 parameter: [18.398       0.67660889 -1.9574303
4 -0.16285342]
Round6387-------squared error: 3.9131 parameter: [18.398       0.67660683 -1.9574322
1 -0.16285311]
Round6388-------squared error: 3.9131 parameter: [18.398       0.67660476 -1.9574340
8 -0.16285279]
Round6389-------squared error: 3.9131 parameter: [18.398       0.6766027  -1.9574359
4 -0.16285248]
Round6390-------squared error: 3.9131 parameter: [18.398       0.67660064 -1.9574378
1 -0.16285216]
Round6391-------squared error: 3.9131 parameter: [18.398       0.67659859 -1.9574396
7 -0.16285185]
Round6392-------squared error: 3.9131 parameter: [18.398       0.67659653 -1.9574415
3 -0.16285154]
Round6393-------squared error: 3.9131 parameter: [18.398       0.67659448 -1.9574433
9 -0.16285122]
Round6394-------squared error: 3.9131 parameter: [18.398       0.67659242 -1.9574452
5 -0.16285091]
Round6395-------squared error: 3.9131 parameter: [18.398       0.67659037 -1.9574471
-0.1628506 ]
Round6396-------squared error: 3.9131 parameter: [18.398       0.67658833 -1.9574489
6 -0.16285028]
Round6397-------squared error: 3.9131 parameter: [18.398       0.67658628 -1.9574508
1 -0.16284997]
Round6398-------squared error: 3.9131 parameter: [18.398       0.67658424 -1.9574526
6 -0.16284966]
Round6399-------squared error: 3.9131 parameter: [18.398       0.6765822  -1.9574545
1 -0.16284935]
Round6400-------squared error: 3.9131 parameter: [18.398       0.67658016 -1.9574563
5 -0.16284903]
```

```
Round6401-------squared error: 3.9131 parameter: [18.398       0.67657812 -1.9574582
-0.16284872]
Round6402-------squared error: 3.9131 parameter: [18.398       0.67657608 -1.9574600
4 -0.16284841]
Round6403-------squared error: 3.9131 parameter: [18.398       0.67657405 -1.9574618
8 -0.1628481 ]
Round6404-------squared error: 3.9131 parameter: [18.398       0.67657202 -1.9574637
2 -0.16284779]
Round6405-------squared error: 3.9131 parameter: [18.398       0.67656999 -1.9574655
6 -0.16284748]
Round6406-------squared error: 3.9131 parameter: [18.398       0.67656796 -1.9574674
-0.16284717]
Round6407-------squared error: 3.9131 parameter: [18.398       0.67656593 -1.9574692
3 -0.16284686]
Round6408-------squared error: 3.9131 parameter: [18.398       0.67656391 -1.9574710
6 -0.16284655]
Round6409-------squared error: 3.9131 parameter: [18.398       0.67656189 -1.9574728
9 -0.16284624]
Round6410-------squared error: 3.9131 parameter: [18.398       0.67655987 -1.9574747
2 -0.16284594]
Round6411-------squared error: 3.9131 parameter: [18.398       0.67655785 -1.9574765
5 -0.16284563]
Round6412-------squared error: 3.9131 parameter: [18.398       0.67655583 -1.9574783
7 -0.16284532]
Round6413-------squared error: 3.9131 parameter: [18.398       0.67655382 -1.9574802
-0.16284501]
Round6414-------squared error: 3.9131 parameter: [18.398       0.6765518  -1.9574820
2 -0.1628447 ]
Round6415-------squared error: 3.9131 parameter: [18.398       0.67654979 -1.9574838
4 -0.1628444 ]
Round6416-------squared error: 3.9131 parameter: [18.398       0.67654779 -1.9574856
6 -0.16284409]
Round6417-------squared error: 3.9131 parameter: [18.398       0.67654578 -1.9574874
8 -0.16284378]
Round6418-------squared error: 3.9131 parameter: [18.398       0.67654377 -1.9574892
9 -0.16284348]
Round6419-------squared error: 3.9131 parameter: [18.398       0.67654177 -1.9574911
-0.16284317]
Round6420-------squared error: 3.9131 parameter: [18.398       0.67653977 -1.9574929
2 -0.16284287]
Round6421-------squared error: 3.9131 parameter: [18.398       0.67653777 -1.9574947
3 -0.16284256]
Round6422-------squared error: 3.9131 parameter: [18.398       0.67653577 -1.9574965
3 -0.16284226]
Round6423-------squared error: 3.9131 parameter: [18.398       0.67653378 -1.9574983
4 -0.16284195]
Round6424-------squared error: 3.9131 parameter: [18.398       0.67653179 -1.9575001
4 -0.16284165]
Round6425-------squared error: 3.9131 parameter: [18.398       0.67652979 -1.9575019
5 -0.16284134]
Round6426-------squared error: 3.9131 parameter: [18.398       0.67652781 -1.9575037
5 -0.16284104]
Round6427-------squared error: 3.9131 parameter: [18.398       0.67652582 -1.9575055
5 -0.16284073]
Round6428-------squared error: 3.9131 parameter: [18.398       0.67652383 -1.9575073
4 -0.16284043]
Round6429-------squared error: 3.9131 parameter: [18.398       0.67652185 -1.9575091
4 -0.16284013]
Round6430-------squared error: 3.9131 parameter: [18.398       0.67651987 -1.9575109
3 -0.16283983]
Round6431-------squared error: 3.9131 parameter: [18.398       0.67651789 -1.9575127
3 -0.16283952]
Round6432-------squared error: 3.9131 parameter: [18.398       0.67651591 -1.9575145
2 -0.16283922]
```

```
Round6433-------squared error: 3.9131 parameter: [18.398       0.67651393 -1.9575163
1 -0.16283892]
Round6434-------squared error: 3.9131 parameter: [18.398       0.67651196 -1.9575180
9 -0.16283862]
Round6435-------squared error: 3.9131 parameter: [18.398       0.67650999 -1.9575198
8 -0.16283832]
Round6436-------squared error: 3.9131 parameter: [18.398       0.67650802 -1.9575216
6 -0.16283802]
Round6437-------squared error: 3.9131 parameter: [18.398       0.67650605 -1.9575234
4 -0.16283771]
Round6438-------squared error: 3.9131 parameter: [18.398       0.67650408 -1.9575252
2 -0.16283741]
Round6439-------squared error: 3.9131 parameter: [18.398       0.67650212 -1.957527
-0.16283711]
Round6440-------squared error: 3.9131 parameter: [18.398       0.67650016 -1.9575287
8 -0.16283681]
Round6441-------squared error: 3.9131 parameter: [18.398       0.67649819 -1.9575305
5 -0.16283652]
Round6442-------squared error: 3.9131 parameter: [18.398       0.67649624 -1.9575323
3 -0.16283622]
Round6443-------squared error: 3.9131 parameter: [18.398       0.67649428 -1.9575341
-0.16283592]
Round6444-------squared error: 3.9131 parameter: [18.398       0.67649232 -1.9575358
7 -0.16283562]
Round6445-------squared error: 3.9131 parameter: [18.398       0.67649037 -1.9575376
4 -0.16283532]
Round6446-------squared error: 3.9131 parameter: [18.398       0.67648842 -1.9575394
1 -0.16283502]
Round6447-------squared error: 3.9131 parameter: [18.398       0.67648647 -1.9575411
7 -0.16283472]
Round6448-------squared error: 3.9131 parameter: [18.398       0.67648452 -1.9575429
3 -0.16283443]
Round6449-------squared error: 3.9131 parameter: [18.398       0.67648258 -1.9575446
9 -0.16283413]
Round6450-------squared error: 3.9131 parameter: [18.398       0.67648063 -1.9575464
5 -0.16283383]
Round6451-------squared error: 3.9131 parameter: [18.398       0.67647869 -1.9575482
1 -0.16283354]
Round6452-------squared error: 3.9131 parameter: [18.398       0.67647675 -1.9575499
7 -0.16283324]
Round6453-------squared error: 3.9131 parameter: [18.398       0.67647481 -1.9575517
2 -0.16283294]
Round6454-------squared error: 3.9131 parameter: [18.398       0.67647288 -1.9575534
8 -0.16283265]
Round6455-------squared error: 3.9131 parameter: [18.398       0.67647094 -1.9575552
3 -0.16283235]
Round6456-------squared error: 3.9131 parameter: [18.398       0.67646901 -1.9575569
8 -0.16283206]
Round6457-------squared error: 3.9131 parameter: [18.398       0.67646708 -1.9575587
3 -0.16283176]
Round6458-------squared error: 3.9131 parameter: [18.398       0.67646515 -1.9575604
7 -0.16283147]
Round6459-------squared error: 3.9131 parameter: [18.398       0.67646322 -1.9575622
2 -0.16283117]
Round6460-------squared error: 3.9131 parameter: [18.398       0.6764613  -1.9575639
6 -0.16283088]
Round6461-------squared error: 3.9131 parameter: [18.398       0.67645937 -1.9575657
-0.16283059]
Round6462-------squared error: 3.9131 parameter: [18.398       0.67645745 -1.9575674
4 -0.16283029]
Round6463-------squared error: 3.9131 parameter: [18.398       0.67645553 -1.9575691
8 -0.16283   ]
Round6464-------squared error: 3.9131 parameter: [18.398       0.67645361 -1.9575709
1 -0.16282971]
```

```
Round6465-------squared error: 3.9131 parameter: [18.398       0.6764517  -1.9575726
5 -0.16282941]
Round6466-------squared error: 3.9131 parameter: [18.398       0.67644978 -1.9575743
8 -0.16282912]
Round6467-------squared error: 3.9131 parameter: [18.398       0.67644787 -1.9575761
1 -0.16282883]
Round6468-------squared error: 3.9131 parameter: [18.398       0.67644596 -1.9575778
4 -0.16282854]
Round6469-------squared error: 3.9131 parameter: [18.398       0.67644405 -1.9575795
7 -0.16282825]
Round6470-------squared error: 3.9131 parameter: [18.398       0.67644215 -1.9575813
-0.16282795]
Round6471-------squared error: 3.9131 parameter: [18.398       0.67644024 -1.9575830
2 -0.16282766]
Round6472-------squared error: 3.9131 parameter: [18.398       0.67643834 -1.9575847
4 -0.16282737]
Round6473-------squared error: 3.9131 parameter: [18.398       0.67643644 -1.9575864
7 -0.16282708]
Round6474-------squared error: 3.9131 parameter: [18.398       0.67643454 -1.9575881
9 -0.16282679]
Round6475-------squared error: 3.9131 parameter: [18.398       0.67643264 -1.9575899
-0.1628265 ]
Round6476-------squared error: 3.9131 parameter: [18.398       0.67643074 -1.9575916
2 -0.16282621]
Round6477-------squared error: 3.9131 parameter: [18.398       0.67642885 -1.9575933
3 -0.16282592]
Round6478-------squared error: 3.9131 parameter: [18.398       0.67642696 -1.9575950
5 -0.16282563]
Round6479-------squared error: 3.9131 parameter: [18.398       0.67642507 -1.9575967
6 -0.16282535]
Round6480-------squared error: 3.9131 parameter: [18.398       0.67642318 -1.9575984
7 -0.16282506]
Round6481-------squared error: 3.9131 parameter: [18.398       0.67642129 -1.9576001
8 -0.16282477]
Round6482-------squared error: 3.9131 parameter: [18.398       0.67641941 -1.9576018
8 -0.16282448]
Round6483-------squared error: 3.9131 parameter: [18.398       0.67641752 -1.9576035
9 -0.16282419]
Round6484-------squared error: 3.9131 parameter: [18.398       0.67641564 -1.9576052
9 -0.16282391]
Round6485-------squared error: 3.9131 parameter: [18.398       0.67641376 -1.9576069
9 -0.16282362]
Round6486-------squared error: 3.9131 parameter: [18.398       0.67641189 -1.9576086
9 -0.16282333]
Round6487-------squared error: 3.9131 parameter: [18.398       0.67641001 -1.9576103
9 -0.16282305]
Round6488-------squared error: 3.9131 parameter: [18.398       0.67640814 -1.9576120
9 -0.16282276]
Round6489-------squared error: 3.9131 parameter: [18.398       0.67640626 -1.9576137
8 -0.16282247]
Round6490-------squared error: 3.9131 parameter: [18.398       0.67640439 -1.9576154
7 -0.16282219]
Round6491-------squared error: 3.9131 parameter: [18.398       0.67640252 -1.9576171
7 -0.1628219 ]
Round6492-------squared error: 3.9131 parameter: [18.398       0.67640066 -1.9576188
6 -0.16282162]
Round6493-------squared error: 3.9131 parameter: [18.398       0.67639879 -1.9576205
4 -0.16282133]
Round6494-------squared error: 3.9131 parameter: [18.398       0.67639693 -1.9576222
3 -0.16282105]
Round6495-------squared error: 3.9131 parameter: [18.398       0.67639507 -1.9576239
2 -0.16282076]
Round6496-------squared error: 3.9131 parameter: [18.398       0.67639321 -1.9576256
-0.16282048]
```

```
Round6497-------squared error: 3.9131 parameter: [18.398       0.67639135 -1.9576272
8 -0.1628202 ]
Round6498-------squared error: 3.9131 parameter: [18.398       0.67638949 -1.9576289
6 -0.16281991]
Round6499-------squared error: 3.9131 parameter: [18.398       0.67638764 -1.9576306
4 -0.16281963]
Round6500-------squared error: 3.9131 parameter: [18.398       0.67638579 -1.9576323
2 -0.16281935]
Round6501-------squared error: 3.9131 parameter: [18.398       0.67638394 -1.9576339
9 -0.16281906]
Round6502-------squared error: 3.9131 parameter: [18.398       0.67638209 -1.9576356
7 -0.16281878]
Round6503-------squared error: 3.9131 parameter: [18.398       0.67638024 -1.9576373
4 -0.1628185 ]
Round6504-------squared error: 3.9131 parameter: [18.398       0.6763784  -1.9576390
1 -0.16281822]
Round6505-------squared error: 3.9131 parameter: [18.398       0.67637655 -1.9576406
8 -0.16281794]
Round6506-------squared error: 3.9131 parameter: [18.398       0.67637471 -1.9576423
5 -0.16281765]
Round6507-------squared error: 3.9131 parameter: [18.398       0.67637287 -1.9576440
1 -0.16281737]
Round6508-------squared error: 3.9131 parameter: [18.398       0.67637103 -1.9576456
8 -0.16281709]
Round6509-------squared error: 3.9131 parameter: [18.398       0.6763692  -1.9576473
4 -0.16281681]
Round6510-------squared error: 3.9131 parameter: [18.398       0.67636736 -1.957649
-0.16281653]
Round6511-------squared error: 3.9131 parameter: [18.398       0.67636553 -1.9576506
6 -0.16281625]
Round6512-------squared error: 3.9131 parameter: [18.398       0.6763637  -1.9576523
2 -0.16281597]
Round6513-------squared error: 3.9131 parameter: [18.398       0.67636187 -1.9576539
7 -0.16281569]
Round6514-------squared error: 3.9131 parameter: [18.398       0.67636004 -1.9576556
3 -0.16281541]
Round6515-------squared error: 3.9131 parameter: [18.398       0.67635821 -1.9576572
8 -0.16281513]
Round6516-------squared error: 3.9131 parameter: [18.398       0.67635639 -1.9576589
3 -0.16281486]
Round6517-------squared error: 3.9131 parameter: [18.398       0.67635457 -1.9576605
8 -0.16281458]
Round6518-------squared error: 3.9131 parameter: [18.398       0.67635275 -1.9576622
3 -0.1628143 ]
Round6519-------squared error: 3.9131 parameter: [18.398       0.67635093 -1.9576638
8 -0.16281402]
Round6520-------squared error: 3.9131 parameter: [18.398       0.67634911 -1.9576655
2 -0.16281374]
Round6521-------squared error: 3.9131 parameter: [18.398       0.6763473  -1.9576671
7 -0.16281347]
Round6522-------squared error: 3.9131 parameter: [18.398       0.67634548 -1.9576688
1 -0.16281319]
Round6523-------squared error: 3.9131 parameter: [18.398       0.67634367 -1.9576704
5 -0.16281291]
Round6524-------squared error: 3.9131 parameter: [18.398       0.67634186 -1.9576720
9 -0.16281264]
Round6525-------squared error: 3.9131 parameter: [18.398       0.67634005 -1.9576737
2 -0.16281236]
Round6526-------squared error: 3.9131 parameter: [18.398       0.67633825 -1.9576753
6 -0.16281208]
Round6527-------squared error: 3.9131 parameter: [18.398       0.67633644 -1.9576769
9 -0.16281181]
Round6528-------squared error: 3.9131 parameter: [18.398       0.67633464 -1.9576786
3 -0.16281153]
```

```
Round6529-------squared error: 3.9131 parameter: [18.398       0.67633284 -1.9576802
6 -0.16281126]
Round6530-------squared error: 3.9131 parameter: [18.398       0.67633104 -1.9576818
9 -0.16281098]
Round6531-------squared error: 3.9131 parameter: [18.398       0.67632924 -1.9576835
1 -0.16281071]
Round6532-------squared error: 3.9131 parameter: [18.398       0.67632744 -1.9576851
4 -0.16281043]
Round6533-------squared error: 3.9131 parameter: [18.398       0.67632565 -1.9576867
6 -0.16281016]
Round6534-------squared error: 3.9131 parameter: [18.398       0.67632386 -1.9576883
9 -0.16280989]
Round6535-------squared error: 3.9131 parameter: [18.398       0.67632206 -1.9576900
1 -0.16280961]
Round6536-------squared error: 3.9131 parameter: [18.398       0.67632027 -1.9576916
3 -0.16280934]
Round6537-------squared error: 3.9131 parameter: [18.398       0.67631849 -1.9576932
5 -0.16280907]
Round6538-------squared error: 3.9131 parameter: [18.398       0.6763167  -1.9576948
6 -0.16280879]
Round6539-------squared error: 3.9131 parameter: [18.398       0.67631492 -1.9576964
8 -0.16280852]
Round6540-------squared error: 3.9131 parameter: [18.398       0.67631313 -1.9576980
9 -0.16280825]
Round6541-------squared error: 3.9131 parameter: [18.398       0.67631135 -1.9576997
-0.16280798]
Round6542-------squared error: 3.9131 parameter: [18.398       0.67630958 -1.9577013
2 -0.16280771]
Round6543-------squared error: 3.9131 parameter: [18.398       0.6763078  -1.9577029
2 -0.16280743]
Round6544-------squared error: 3.9131 parameter: [18.398       0.67630602 -1.9577045
3 -0.16280716]
Round6545-------squared error: 3.9131 parameter: [18.398       0.67630425 -1.9577061
4 -0.16280689]
Round6546-------squared error: 3.9131 parameter: [18.398       0.67630248 -1.9577077
4 -0.16280662]
Round6547-------squared error: 3.9131 parameter: [18.398       0.67630071 -1.9577093
4 -0.16280635]
Round6548-------squared error: 3.9131 parameter: [18.398       0.67629894 -1.9577109
5 -0.16280608]
Round6549-------squared error: 3.9131 parameter: [18.398       0.67629717 -1.9577125
5 -0.16280581]
Round6550-------squared error: 3.9131 parameter: [18.398       0.6762954  -1.9577141
4 -0.16280554]
Round6551-------squared error: 3.9131 parameter: [18.398       0.67629364 -1.9577157
4 -0.16280527]
Round6552-------squared error: 3.9131 parameter: [18.398       0.67629188 -1.9577173
4 -0.162805  ]
Round6553-------squared error: 3.9131 parameter: [18.398       0.67629012 -1.9577189
3 -0.16280473]
Round6554-------squared error: 3.9131 parameter: [18.398       0.67628836 -1.9577205
2 -0.16280446]
Round6555-------squared error: 3.9131 parameter: [18.398       0.6762866  -1.9577221
1 -0.1628042 ]
Round6556-------squared error: 3.9131 parameter: [18.398       0.67628485 -1.9577237
-0.16280393]
Round6557-------squared error: 3.9131 parameter: [18.398       0.6762831  -1.9577252
9 -0.16280366]
Round6558-------squared error: 3.9131 parameter: [18.398       0.67628134 -1.9577268
7 -0.16280339]
Round6559-------squared error: 3.9131 parameter: [18.398       0.67627959 -1.9577284
6 -0.16280313]
Round6560-------squared error: 3.9131 parameter: [18.398       0.67627784 -1.9577300
4 -0.16280286]
```

```
Round6561-------squared error: 3.9131 parameter: [18.398       0.6762761  -1.9577316
2 -0.16280259]
Round6562-------squared error: 3.9131 parameter: [18.398       0.67627435 -1.9577332
-0.16280233]
Round6563-------squared error: 3.9131 parameter: [18.398       0.67627261 -1.9577347
8 -0.16280206]
Round6564-------squared error: 3.9131 parameter: [18.398       0.67627087 -1.9577363
6 -0.16280179]
Round6565-------squared error: 3.9131 parameter: [18.398       0.67626913 -1.9577379
3 -0.16280153]
Round6566-------squared error: 3.9131 parameter: [18.398       0.67626739 -1.9577395
1 -0.16280126]
Round6567-------squared error: 3.9131 parameter: [18.398       0.67626565 -1.9577410
8 -0.162801  ]
Round6568-------squared error: 3.9131 parameter: [18.398       0.67626392 -1.9577426
5 -0.16280073]
Round6569-------squared error: 3.9131 parameter: [18.398       0.67626218 -1.9577442
2 -0.16280047]
Round6570-------squared error: 3.9131 parameter: [18.398       0.67626045 -1.9577457
9 -0.1628002 ]
Round6571-------squared error: 3.9131 parameter: [18.398       0.67625872 -1.9577473
5 -0.16279994]
Round6572-------squared error: 3.9131 parameter: [18.398       0.67625699 -1.9577489
2 -0.16279967]
Round6573-------squared error: 3.9131 parameter: [18.398       0.67625527 -1.9577504
8 -0.16279941]
Round6574-------squared error: 3.9131 parameter: [18.398       0.67625354 -1.9577520
4 -0.16279915]
Round6575-------squared error: 3.9131 parameter: [18.398       0.67625182 -1.9577536
-0.16279888]
Round6576-------squared error: 3.9131 parameter: [18.398       0.6762501  -1.9577551
6 -0.16279862]
Round6577-------squared error: 3.9131 parameter: [18.398       0.67624838 -1.9577567
2 -0.16279836]
Round6578-------squared error: 3.9131 parameter: [18.398       0.67624666 -1.9577582
7 -0.1627981 ]
Round6579-------squared error: 3.9131 parameter: [18.398       0.67624494 -1.9577598
3 -0.16279783]
Round6580-------squared error: 3.9131 parameter: [18.398       0.67624323 -1.9577613
8 -0.16279757]
Round6581-------squared error: 3.9131 parameter: [18.398       0.67624151 -1.9577629
3 -0.16279731]
Round6582-------squared error: 3.9131 parameter: [18.398       0.6762398  -1.9577644
8 -0.16279705]
Round6583-------squared error: 3.9131 parameter: [18.398       0.67623809 -1.9577660
3 -0.16279679]
Round6584-------squared error: 3.9131 parameter: [18.398       0.67623638 -1.9577675
8 -0.16279653]
Round6585-------squared error: 3.9131 parameter: [18.398       0.67623468 -1.9577691
2 -0.16279626]
Round6586-------squared error: 3.9131 parameter: [18.398       0.67623297 -1.9577706
6 -0.162796  ]
Round6587-------squared error: 3.9131 parameter: [18.398       0.67623127 -1.9577722
1 -0.16279574]
Round6588-------squared error: 3.9131 parameter: [18.398       0.67622957 -1.9577737
5 -0.16279548]
Round6589-------squared error: 3.9131 parameter: [18.398       0.67622787 -1.9577752
9 -0.16279522]
Round6590-------squared error: 3.9131 parameter: [18.398       0.67622617 -1.9577768
2 -0.16279497]
Round6591-------squared error: 3.9131 parameter: [18.398       0.67622447 -1.9577783
6 -0.16279471]
Round6592-------squared error: 3.9131 parameter: [18.398       0.67622278 -1.9577799
-0.16279445]
```

```
Round6593-------squared error: 3.9131 parameter: [18.398       0.67622108 -1.9577814
3 -0.16279419]
Round6594-------squared error: 3.9131 parameter: [18.398       0.67621939 -1.9577829
6 -0.16279393]
Round6595-------squared error: 3.9131 parameter: [18.398       0.6762177  -1.9577844
9 -0.16279367]
Round6596-------squared error: 3.9131 parameter: [18.398       0.67621601 -1.9577860
2 -0.16279341]
Round6597-------squared error: 3.9131 parameter: [18.398       0.67621432 -1.9577875
5 -0.16279316]
Round6598-------squared error: 3.9131 parameter: [18.398       0.67621264 -1.9577890
7 -0.1627929 ]
Round6599-------squared error: 3.9131 parameter: [18.398       0.67621095 -1.9577906
-0.16279264]
Round6600-------squared error: 3.9131 parameter: [18.398       0.67620927 -1.9577921
2 -0.16279238]
Round6601-------squared error: 3.9131 parameter: [18.398       0.67620759 -1.9577936
4 -0.16279213]
Round6602-------squared error: 3.9131 parameter: [18.398       0.67620591 -1.9577951
6 -0.16279187]
Round6603-------squared error: 3.9131 parameter: [18.398       0.67620423 -1.9577966
8 -0.16279161]
Round6604-------squared error: 3.9131 parameter: [18.398       0.67620256 -1.9577982
-0.16279136]
Round6605-------squared error: 3.9131 parameter: [18.398       0.67620088 -1.9577997
1 -0.1627911 ]
Round6606-------squared error: 3.9131 parameter: [18.398       0.67619921 -1.9578012
3 -0.16279085]
Round6607-------squared error: 3.9131 parameter: [18.398       0.67619754 -1.9578027
4 -0.16279059]
Round6608-------squared error: 3.9131 parameter: [18.398       0.67619587 -1.9578042
5 -0.16279034]
Round6609-------squared error: 3.9131 parameter: [18.398       0.6761942  -1.9578057
6 -0.16279008]
Round6610-------squared error: 3.9131 parameter: [18.398       0.67619254 -1.9578072
7 -0.16278983]
Round6611-------squared error: 3.9131 parameter: [18.398       0.67619087 -1.9578087
8 -0.16278957]
Round6612-------squared error: 3.9131 parameter: [18.398       0.67618921 -1.9578102
8 -0.16278932]
Round6613-------squared error: 3.9131 parameter: [18.398       0.67618755 -1.9578117
9 -0.16278907]
Round6614-------squared error: 3.9131 parameter: [18.398       0.67618589 -1.9578132
9 -0.16278881]
Round6615-------squared error: 3.9131 parameter: [18.398       0.67618423 -1.9578147
9 -0.16278856]
Round6616-------squared error: 3.9131 parameter: [18.398       0.67618257 -1.9578162
9 -0.16278831]
Round6617-------squared error: 3.9131 parameter: [18.398       0.67618092 -1.9578177
9 -0.16278805]
Round6618-------squared error: 3.9131 parameter: [18.398       0.67617927 -1.9578192
9 -0.1627878 ]
Round6619-------squared error: 3.9131 parameter: [18.398       0.67617761 -1.9578207
8 -0.16278755]
Round6620-------squared error: 3.9131 parameter: [18.398       0.67617596 -1.9578222
8 -0.1627873 ]
Round6621-------squared error: 3.9131 parameter: [18.398       0.67617432 -1.9578237
7 -0.16278704]
Round6622-------squared error: 3.9131 parameter: [18.398       0.67617267 -1.9578252
6 -0.16278679]
Round6623-------squared error: 3.9131 parameter: [18.398       0.67617102 -1.9578267
5 -0.16278654]
Round6624-------squared error: 3.9131 parameter: [18.398       0.67616938 -1.9578282
4 -0.16278629]
```

```
Round6625-------squared error: 3.9131 parameter: [18.398       0.67616774 -1.9578297
2 -0.16278604]
Round6626-------squared error: 3.9131 parameter: [18.398       0.6761661  -1.9578312
1 -0.16278579]
Round6627-------squared error: 3.9131 parameter: [18.398       0.67616446 -1.9578326
9 -0.16278554]
Round6628-------squared error: 3.9131 parameter: [18.398       0.67616282 -1.9578341
8 -0.16278529]
Round6629-------squared error: 3.9131 parameter: [18.398       0.67616118 -1.9578356
6 -0.16278504]
Round6630-------squared error: 3.9131 parameter: [18.398       0.67615955 -1.9578371
4 -0.16278479]
Round6631-------squared error: 3.9131 parameter: [18.398       0.67615792 -1.9578386
1 -0.16278454]
Round6632-------squared error: 3.9131 parameter: [18.398       0.67615629 -1.9578400
9 -0.16278429]
Round6633-------squared error: 3.9131 parameter: [18.398       0.67615466 -1.9578415
7 -0.16278404]
Round6634-------squared error: 3.9131 parameter: [18.398       0.67615303 -1.9578430
4 -0.16278379]
Round6635-------squared error: 3.9131 parameter: [18.398       0.6761514  -1.9578445
1 -0.16278354]
Round6636-------squared error: 3.9131 parameter: [18.398       0.67614978 -1.9578459
8 -0.1627833 ]
Round6637-------squared error: 3.9131 parameter: [18.398       0.67614815 -1.9578474
5 -0.16278305]
Round6638-------squared error: 3.9131 parameter: [18.398       0.67614653 -1.9578489
2 -0.1627828 ]
Round6639-------squared error: 3.9131 parameter: [18.398       0.67614491 -1.9578503
9 -0.16278255]
Round6640-------squared error: 3.9131 parameter: [18.398       0.67614329 -1.9578518
5 -0.16278231]
Round6641-------squared error: 3.9131 parameter: [18.398       0.67614167 -1.9578533
2 -0.16278206]
Round6642-------squared error: 3.9131 parameter: [18.398       0.67614006 -1.9578547
8 -0.16278181]
Round6643-------squared error: 3.9131 parameter: [18.398       0.67613845 -1.9578562
4 -0.16278157]
Round6644-------squared error: 3.9131 parameter: [18.398       0.67613683 -1.9578577
-0.16278132]
Round6645-------squared error: 3.9131 parameter: [18.398       0.67613522 -1.9578591
6 -0.16278107]
Round6646-------squared error: 3.9131 parameter: [18.398       0.67613361 -1.9578606
2 -0.16278083]
Round6647-------squared error: 3.9131 parameter: [18.398       0.676132   -1.9578620
7 -0.16278058]
Round6648-------squared error: 3.9131 parameter: [18.398       0.6761304  -1.9578635
3 -0.16278034]
Round6649-------squared error: 3.9131 parameter: [18.398       0.67612879 -1.9578649
8 -0.16278009]
Round6650-------squared error: 3.9131 parameter: [18.398       0.67612719 -1.9578664
3 -0.16277985]
Round6651-------squared error: 3.9131 parameter: [18.398       0.67612559 -1.9578678
8 -0.1627796 ]
Round6652-------squared error: 3.9131 parameter: [18.398       0.67612399 -1.9578693
3 -0.16277936]
Round6653-------squared error: 3.9131 parameter: [18.398       0.67612239 -1.9578707
8 -0.16277911]
Round6654-------squared error: 3.9131 parameter: [18.398       0.67612079 -1.9578722
2 -0.16277887]
Round6655-------squared error: 3.9131 parameter: [18.398       0.6761192  -1.9578736
7 -0.16277863]
Round6656-------squared error: 3.9131 parameter: [18.398       0.6761176  -1.9578751
1 -0.16277838]
```

```
Round6657-------squared error: 3.9131 parameter: [18.398       0.67611601 -1.9578765
5 -0.16277814]
Round6658-------squared error: 3.9131 parameter: [18.398       0.67611442 -1.9578779
9 -0.1627779 ]
Round6659-------squared error: 3.9131 parameter: [18.398       0.67611283 -1.9578794
3 -0.16277765]
Round6660-------squared error: 3.9131 parameter: [18.398       0.67611124 -1.9578808
7 -0.16277741]
Round6661-------squared error: 3.9131 parameter: [18.398       0.67610966 -1.9578823
-0.16277717]
Round6662-------squared error: 3.9131 parameter: [18.398       0.67610807 -1.9578837
4 -0.16277693]
Round6663-------squared error: 3.9131 parameter: [18.398       0.67610649 -1.9578851
7 -0.16277668]
Round6664-------squared error: 3.9131 parameter: [18.398       0.67610491 -1.9578866
-0.16277644]
Round6665-------squared error: 3.9131 parameter: [18.398       0.67610333 -1.9578880
3 -0.1627762 ]
Round6666-------squared error: 3.9131 parameter: [18.398       0.67610175 -1.9578894
6 -0.16277596]
Round6667-------squared error: 3.9131 parameter: [18.398       0.67610017 -1.9578908
9 -0.16277572]
Round6668-------squared error: 3.9131 parameter: [18.398       0.6760986  -1.9578923
2 -0.16277548]
Round6669-------squared error: 3.9131 parameter: [18.398       0.67609702 -1.9578937
4 -0.16277524]
Round6670-------squared error: 3.9131 parameter: [18.398       0.67609545 -1.9578951
7 -0.162775  ]
Round6671-------squared error: 3.9131 parameter: [18.398       0.67609388 -1.9578965
9 -0.16277476]
Round6672-------squared error: 3.9131 parameter: [18.398       0.67609231 -1.9578980
1 -0.16277452]
Round6673-------squared error: 3.9131 parameter: [18.398       0.67609074 -1.9578994
3 -0.16277428]
Round6674-------squared error: 3.9131 parameter: [18.398       0.67608917 -1.9579008
5 -0.16277404]
Round6675-------squared error: 3.9131 parameter: [18.398       0.67608761 -1.9579022
6 -0.1627738 ]
Round6676-------squared error: 3.9131 parameter: [18.398       0.67608604 -1.9579036
8 -0.16277356]
Round6677-------squared error: 3.9131 parameter: [18.398       0.67608448 -1.9579050
9 -0.16277332]
Round6678-------squared error: 3.9131 parameter: [18.398       0.67608292 -1.9579065
1 -0.16277308]
Round6679-------squared error: 3.9131 parameter: [18.398       0.67608136 -1.9579079
2 -0.16277285]
Round6680-------squared error: 3.9131 parameter: [18.398       0.67607981 -1.9579093
3 -0.16277261]
Round6681-------squared error: 3.9131 parameter: [18.398       0.67607825 -1.9579107
4 -0.16277237]
Round6682-------squared error: 3.9131 parameter: [18.398       0.6760767  -1.9579121
4 -0.16277213]
Round6683-------squared error: 3.9131 parameter: [18.398       0.67607514 -1.9579135
5 -0.1627719 ]
Round6684-------squared error: 3.9131 parameter: [18.398       0.67607359 -1.9579149
6 -0.16277166]
Round6685-------squared error: 3.9131 parameter: [18.398       0.67607204 -1.9579163
6 -0.16277142]
Round6686-------squared error: 3.9131 parameter: [18.398       0.67607049 -1.9579177
6 -0.16277119]
Round6687-------squared error: 3.9131 parameter: [18.398       0.67606895 -1.9579191
6 -0.16277095]
Round6688-------squared error: 3.9131 parameter: [18.398       0.6760674  -1.9579205
6 -0.16277071]
```

```
Round6689-------squared error: 3.9131 parameter: [18.398       0.67606586 -1.9579219
6 -0.16277048]
Round6690-------squared error: 3.9131 parameter: [18.398       0.67606431 -1.9579233
5 -0.16277024]
Round6691-------squared error: 3.9131 parameter: [18.398       0.67606277 -1.9579247
5 -0.16277001]
Round6692-------squared error: 3.9131 parameter: [18.398       0.67606123 -1.9579261
4 -0.16276977]
Round6693-------squared error: 3.9131 parameter: [18.398       0.67605969 -1.9579275
4 -0.16276954]
Round6694-------squared error: 3.9131 parameter: [18.398       0.67605816 -1.9579289
3 -0.1627693 ]
Round6695-------squared error: 3.9131 parameter: [18.398       0.67605662 -1.9579303
2 -0.16276907]
Round6696-------squared error: 3.9131 parameter: [18.398       0.67605509 -1.9579317
1 -0.16276883]
Round6697-------squared error: 3.9131 parameter: [18.398       0.67605356 -1.9579330
9 -0.1627686 ]
Round6698-------squared error: 3.9131 parameter: [18.398       0.67605203 -1.9579344
8 -0.16276837]
Round6699-------squared error: 3.9131 parameter: [18.398       0.6760505  -1.9579358
6 -0.16276813]
Round6700-------squared error: 3.9131 parameter: [18.398       0.67604897 -1.9579372
5 -0.1627679 ]
Round6701-------squared error: 3.9131 parameter: [18.398       0.67604744 -1.9579386
3 -0.16276767]
Round6702-------squared error: 3.9131 parameter: [18.398       0.67604592 -1.9579400
1 -0.16276743]
Round6703-------squared error: 3.9131 parameter: [18.398       0.67604439 -1.9579413
9 -0.1627672 ]
Round6704-------squared error: 3.9131 parameter: [18.398       0.67604287 -1.9579427
7 -0.16276697]
Round6705-------squared error: 3.9131 parameter: [18.398       0.67604135 -1.9579441
4 -0.16276674]
Round6706-------squared error: 3.9131 parameter: [18.398       0.67603983 -1.9579455
2 -0.1627665 ]
Round6707-------squared error: 3.9131 parameter: [18.398       0.67603832 -1.9579468
9 -0.16276627]
Round6708-------squared error: 3.9131 parameter: [18.398       0.6760368  -1.9579482
6 -0.16276604]
Round6709-------squared error: 3.9131 parameter: [18.398       0.67603528 -1.9579496
3 -0.16276581]
Round6710-------squared error: 3.9131 parameter: [18.398       0.67603377 -1.957951
-0.16276558]
Round6711-------squared error: 3.9131 parameter: [18.398       0.67603226 -1.9579523
7 -0.16276535]
Round6712-------squared error: 3.9131 parameter: [18.398       0.67603075 -1.9579537
4 -0.16276512]
Round6713-------squared error: 3.9131 parameter: [18.398       0.67602924 -1.9579551
1 -0.16276489]
Round6714-------squared error: 3.9131 parameter: [18.398       0.67602773 -1.9579564
7 -0.16276465]
Round6715-------squared error: 3.9131 parameter: [18.398       0.67602623 -1.9579578
3 -0.16276442]
Round6716-------squared error: 3.9131 parameter: [18.398       0.67602472 -1.9579592
-0.1627642 ]
Round6717-------squared error: 3.9131 parameter: [18.398       0.67602322 -1.9579605
6 -0.16276397]
Round6718-------squared error: 3.9131 parameter: [18.398       0.67602172 -1.9579619
2 -0.16276374]
Round6719-------squared error: 3.9131 parameter: [18.398       0.67602022 -1.9579632
7 -0.16276351]
Round6720-------squared error: 3.9131 parameter: [18.398       0.67601872 -1.9579646
3 -0.16276328]
```

```
Round6721-------squared error: 3.9131 parameter: [18.398       0.67601722 -1.9579659
9 -0.16276305]
Round6722-------squared error: 3.9131 parameter: [18.398       0.67601573 -1.9579673
4 -0.16276282]
Round6723-------squared error: 3.9131 parameter: [18.398       0.67601423 -1.9579686
9 -0.16276259]
Round6724-------squared error: 3.9131 parameter: [18.398       0.67601274 -1.9579700
4 -0.16276236]
Round6725-------squared error: 3.9131 parameter: [18.398       0.67601125 -1.9579713
9 -0.16276214]
Round6726-------squared error: 3.9131 parameter: [18.398       0.67600976 -1.9579727
4 -0.16276191]
Round6727-------squared error: 3.9131 parameter: [18.398       0.67600827 -1.9579740
9 -0.16276168]
Round6728-------squared error: 3.9131 parameter: [18.398       0.67600678 -1.9579754
4 -0.16276145]
Round6729-------squared error: 3.9131 parameter: [18.398       0.6760053  -1.9579767
8 -0.16276123]
Round6730-------squared error: 3.9131 parameter: [18.398       0.67600381 -1.9579781
3 -0.162761  ]
Round6731-------squared error: 3.9131 parameter: [18.398       0.67600233 -1.9579794
7 -0.16276077]
Round6732-------squared error: 3.9131 parameter: [18.398       0.67600085 -1.9579808
1 -0.16276055]
Round6733-------squared error: 3.9131 parameter: [18.398       0.67599937 -1.9579821
5 -0.16276032]
Round6734-------squared error: 3.9131 parameter: [18.398       0.67599789 -1.9579834
9 -0.1627601 ]
Round6735-------squared error: 3.9131 parameter: [18.398       0.67599641 -1.9579848
3 -0.16275987]
Round6736-------squared error: 3.9131 parameter: [18.398       0.67599494 -1.9579861
6 -0.16275965]
Round6737-------squared error: 3.9131 parameter: [18.398       0.67599346 -1.9579875
-0.16275942]
Round6738-------squared error: 3.9131 parameter: [18.398       0.67599199 -1.9579888
3 -0.1627592 ]
Round6739-------squared error: 3.9131 parameter: [18.398       0.67599052 -1.9579901
6 -0.16275897]
Round6740-------squared error: 3.9131 parameter: [18.398       0.67598905 -1.9579914
9 -0.16275875]
Round6741-------squared error: 3.9131 parameter: [18.398       0.67598758 -1.9579928
2 -0.16275852]
Round6742-------squared error: 3.9131 parameter: [18.398       0.67598611 -1.9579941
5 -0.1627583 ]
Round6743-------squared error: 3.9131 parameter: [18.398       0.67598465 -1.9579954
8 -0.16275807]
Round6744-------squared error: 3.9131 parameter: [18.398       0.67598318 -1.9579968
-0.16275785]
Round6745-------squared error: 3.9131 parameter: [18.398       0.67598172 -1.9579981
3 -0.16275763]
Round6746-------squared error: 3.9131 parameter: [18.398       0.67598026 -1.9579994
5 -0.1627574 ]
Round6747-------squared error: 3.9131 parameter: [18.398       0.6759788  -1.9580007
7 -0.16275718]
Round6748-------squared error: 3.9131 parameter: [18.398       0.67597734 -1.9580020
9 -0.16275696]
Round6749-------squared error: 3.9131 parameter: [18.398       0.67597588 -1.9580034
1 -0.16275673]
Round6750-------squared error: 3.9131 parameter: [18.398       0.67597443 -1.9580047
3 -0.16275651]
Round6751-------squared error: 3.9131 parameter: [18.398       0.67597297 -1.9580060
5 -0.16275629]
Round6752-------squared error: 3.9131 parameter: [18.398       0.67597152 -1.9580073
6 -0.16275607]
```

```
Round6753-------squared error: 3.9131 parameter: [18.398       0.67597007 -1.9580086
8 -0.16275585]
Round6754-------squared error: 3.9131 parameter: [18.398       0.67596862 -1.9580099
9 -0.16275562]
Round6755-------squared error: 3.9131 parameter: [18.398       0.67596717 -1.9580113
-0.1627554 ]
Round6756-------squared error: 3.9131 parameter: [18.398       0.67596572 -1.9580126
1 -0.16275518]
Round6757-------squared error: 3.9131 parameter: [18.398       0.67596427 -1.9580139
2 -0.16275496]
Round6758-------squared error: 3.9131 parameter: [18.398       0.67596283 -1.9580152
3 -0.16275474]
Round6759-------squared error: 3.9131 parameter: [18.398       0.67596139 -1.9580165
4 -0.16275452]
Round6760-------squared error: 3.9131 parameter: [18.398       0.67595994 -1.9580178
4 -0.1627543 ]
Round6761-------squared error: 3.9131 parameter: [18.398       0.6759585  -1.9580191
5 -0.16275408]
Round6762-------squared error: 3.9131 parameter: [18.398       0.67595706 -1.9580204
5 -0.16275386]
Round6763-------squared error: 3.9131 parameter: [18.398       0.67595563 -1.9580217
5 -0.16275364]
Round6764-------squared error: 3.9131 parameter: [18.398       0.67595419 -1.9580230
5 -0.16275342]
Round6765-------squared error: 3.9131 parameter: [18.398       0.67595275 -1.9580243
5 -0.1627532 ]
Round6766-------squared error: 3.9131 parameter: [18.398       0.67595132 -1.9580256
5 -0.16275298]
Round6767-------squared error: 3.9131 parameter: [18.398       0.67594989 -1.9580269
4 -0.16275276]
Round6768-------squared error: 3.9131 parameter: [18.398       0.67594846 -1.9580282
4 -0.16275255]
Round6769-------squared error: 3.9131 parameter: [18.398       0.67594703 -1.9580295
3 -0.16275233]
Round6770-------squared error: 3.9131 parameter: [18.398       0.6759456  -1.9580308
3 -0.16275211]
Round6771-------squared error: 3.9131 parameter: [18.398       0.67594417 -1.9580321
2 -0.16275189]
Round6772-------squared error: 3.9131 parameter: [18.398       0.67594275 -1.9580334
1 -0.16275167]
Round6773-------squared error: 3.9131 parameter: [18.398       0.67594132 -1.9580347
-0.16275146]
Round6774-------squared error: 3.9131 parameter: [18.398       0.6759399  -1.9580359
9 -0.16275124]
Round6775-------squared error: 3.9131 parameter: [18.398       0.67593848 -1.9580372
7 -0.16275102]
Round6776-------squared error: 3.9131 parameter: [18.398       0.67593706 -1.9580385
6 -0.1627508 ]
Round6777-------squared error: 3.9131 parameter: [18.398       0.67593564 -1.9580398
4 -0.16275059]
Round6778-------squared error: 3.9131 parameter: [18.398       0.67593422 -1.9580411
3 -0.16275037]
Round6779-------squared error: 3.9131 parameter: [18.398       0.67593281 -1.9580424
1 -0.16275016]
Round6780-------squared error: 3.9131 parameter: [18.398       0.67593139 -1.9580436
9 -0.16274994]
Round6781-------squared error: 3.9131 parameter: [18.398       0.67592998 -1.9580449
7 -0.16274972]
Round6782-------squared error: 3.9131 parameter: [18.398       0.67592857 -1.9580462
5 -0.16274951]
Round6783-------squared error: 3.9131 parameter: [18.398       0.67592716 -1.9580475
2 -0.16274929]
Round6784-------squared error: 3.9131 parameter: [18.398       0.67592575 -1.9580488
-0.16274908]
```

```
Round6785-------squared error: 3.9131 parameter: [18.398       0.67592434 -1.9580500
7 -0.16274886]
Round6786-------squared error: 3.9131 parameter: [18.398       0.67592294 -1.9580513
5 -0.16274865]
Round6787-------squared error: 3.9131 parameter: [18.398       0.67592153 -1.9580526
2 -0.16274843]
Round6788-------squared error: 3.9131 parameter: [18.398       0.67592013 -1.9580538
9 -0.16274822]
Round6789-------squared error: 3.9131 parameter: [18.398       0.67591872 -1.9580551
6 -0.162748  ]
Round6790-------squared error: 3.9131 parameter: [18.398       0.67591732 -1.9580564
3 -0.16274779]
Round6791-------squared error: 3.9131 parameter: [18.398       0.67591592 -1.9580576
9 -0.16274758]
Round6792-------squared error: 3.9131 parameter: [18.398       0.67591453 -1.9580589
6 -0.16274736]
Round6793-------squared error: 3.9131 parameter: [18.398       0.67591313 -1.9580602
2 -0.16274715]
Round6794-------squared error: 3.9131 parameter: [18.398       0.67591173 -1.9580614
9 -0.16274694]
Round6795-------squared error: 3.9131 parameter: [18.398       0.67591034 -1.9580627
5 -0.16274672]
Round6796-------squared error: 3.9131 parameter: [18.398       0.67590895 -1.9580640
1 -0.16274651]
Round6797-------squared error: 3.9131 parameter: [18.398       0.67590756 -1.9580652
7 -0.1627463 ]
Round6798-------squared error: 3.9131 parameter: [18.398       0.67590616 -1.9580665
3 -0.16274609]
Round6799-------squared error: 3.9131 parameter: [18.398       0.67590478 -1.9580677
9 -0.16274587]
Round6800-------squared error: 3.9131 parameter: [18.398       0.67590339 -1.9580690
4 -0.16274566]
Round6801-------squared error: 3.9131 parameter: [18.398       0.675902   -1.9580703
-0.16274545]
Round6802-------squared error: 3.9131 parameter: [18.398       0.67590062 -1.9580715
5 -0.16274524]
Round6803-------squared error: 3.9131 parameter: [18.398       0.67589923 -1.9580728
-0.16274503]
Round6804-------squared error: 3.9131 parameter: [18.398       0.67589785 -1.9580740
5 -0.16274482]
Round6805-------squared error: 3.9131 parameter: [18.398       0.67589647 -1.9580753
-0.1627446 ]
Round6806-------squared error: 3.9131 parameter: [18.398       0.67589509 -1.9580765
5 -0.16274439]
Round6807-------squared error: 3.9131 parameter: [18.398       0.67589371 -1.9580778
-0.16274418]
Round6808-------squared error: 3.9131 parameter: [18.398       0.67589234 -1.9580790
5 -0.16274397]
Round6809-------squared error: 3.9131 parameter: [18.398       0.67589096 -1.9580802
9 -0.16274376]
Round6810-------squared error: 3.9131 parameter: [18.398       0.67588959 -1.9580815
4 -0.16274355]
Round6811-------squared error: 3.9131 parameter: [18.398       0.67588821 -1.9580827
8 -0.16274334]
Round6812-------squared error: 3.9131 parameter: [18.398       0.67588684 -1.9580840
2 -0.16274313]
Round6813-------squared error: 3.9131 parameter: [18.398       0.67588547 -1.9580852
6 -0.16274292]
Round6814-------squared error: 3.9131 parameter: [18.398       0.6758841  -1.9580865
-0.16274272]
Round6815-------squared error: 3.9131 parameter: [18.398       0.67588274 -1.9580877
4 -0.16274251]
Round6816-------squared error: 3.9131 parameter: [18.398       0.67588137 -1.9580889
8 -0.1627423 ]
```

```
Round6817-------squared error: 3.9131 parameter: [18.398       0.67588001 -1.9580902
1 -0.16274209]
Round6818-------squared error: 3.9131 parameter: [18.398       0.67587864 -1.9580914
5 -0.16274188]
Round6819-------squared error: 3.9131 parameter: [18.398       0.67587728 -1.9580926
8 -0.16274167]
Round6820-------squared error: 3.9131 parameter: [18.398       0.67587592 -1.9580939
1 -0.16274147]
Round6821-------squared error: 3.9131 parameter: [18.398       0.67587456 -1.9580951
4 -0.16274126]
Round6822-------squared error: 3.9131 parameter: [18.398       0.6758732  -1.9580963
7 -0.16274105]
Round6823-------squared error: 3.9131 parameter: [18.398       0.67587184 -1.9580976
-0.16274084]
Round6824-------squared error: 3.9131 parameter: [18.398       0.67587049 -1.9580988
3 -0.16274064]
Round6825-------squared error: 3.9131 parameter: [18.398       0.67586913 -1.9581000
5 -0.16274043]
Round6826-------squared error: 3.9131 parameter: [18.398       0.67586778 -1.9581012
8 -0.16274022]
Round6827-------squared error: 3.9131 parameter: [18.398       0.67586643 -1.9581025
-0.16274002]
Round6828-------squared error: 3.9131 parameter: [18.398       0.67586508 -1.9581037
3 -0.16273981]
Round6829-------squared error: 3.9131 parameter: [18.398       0.67586373 -1.9581049
5 -0.1627396 ]
Round6830-------squared error: 3.9131 parameter: [18.398       0.67586238 -1.9581061
7 -0.1627394 ]
Round6831-------squared error: 3.9131 parameter: [18.398       0.67586103 -1.9581073
9 -0.16273919]
Round6832-------squared error: 3.9131 parameter: [18.398       0.67585969 -1.9581086
-0.16273899]
Round6833-------squared error: 3.9131 parameter: [18.398       0.67585834 -1.9581098
2 -0.16273878]
Round6834-------squared error: 3.9131 parameter: [18.398       0.675857   -1.9581110
4 -0.16273858]
Round6835-------squared error: 3.9131 parameter: [18.398       0.67585566 -1.9581122
5 -0.16273837]
Round6836-------squared error: 3.9131 parameter: [18.398       0.67585432 -1.9581134
6 -0.16273817]
Round6837-------squared error: 3.9131 parameter: [18.398       0.67585298 -1.9581146
8 -0.16273796]
Round6838-------squared error: 3.9131 parameter: [18.398       0.67585164 -1.9581158
9 -0.16273776]
Round6839-------squared error: 3.9131 parameter: [18.398       0.67585031 -1.9581171
-0.16273755]
Round6840-------squared error: 3.9131 parameter: [18.398       0.67584897 -1.9581183
1 -0.16273735]
Round6841-------squared error: 3.9131 parameter: [18.398       0.67584764 -1.9581195
1 -0.16273715]
Round6842-------squared error: 3.9131 parameter: [18.398       0.67584631 -1.9581207
2 -0.16273694]
Round6843-------squared error: 3.9131 parameter: [18.398       0.67584497 -1.9581219
2 -0.16273674]
Round6844-------squared error: 3.9131 parameter: [18.398       0.67584364 -1.9581231
3 -0.16273654]
Round6845-------squared error: 3.9131 parameter: [18.398       0.67584232 -1.9581243
3 -0.16273633]
Round6846-------squared error: 3.9131 parameter: [18.398       0.67584099 -1.9581255
3 -0.16273613]
Round6847-------squared error: 3.9131 parameter: [18.398       0.67583966 -1.9581267
3 -0.16273593]
Round6848-------squared error: 3.9131 parameter: [18.398       0.67583834 -1.9581279
3 -0.16273573]
```

```
Round6849-------squared error: 3.9131 parameter: [18.398       0.67583701 -1.9581291
3 -0.16273552]
Round6850-------squared error: 3.9131 parameter: [18.398       0.67583569 -1.9581303
3 -0.16273532]
Round6851-------squared error: 3.9131 parameter: [18.398       0.67583437 -1.9581315
2 -0.16273512]
Round6852-------squared error: 3.9131 parameter: [18.398       0.67583305 -1.9581327
2 -0.16273492]
Round6853-------squared error: 3.9131 parameter: [18.398       0.67583173 -1.9581339
1 -0.16273472]
Round6854-------squared error: 3.9131 parameter: [18.398       0.67583042 -1.9581351
-0.16273452]
Round6855-------squared error: 3.9131 parameter: [18.398       0.6758291  -1.9581363
-0.16273431]
Round6856-------squared error: 3.9131 parameter: [18.398       0.67582779 -1.9581374
9 -0.16273411]
Round6857-------squared error: 3.9131 parameter: [18.398       0.67582647 -1.9581386
7 -0.16273391]
Round6858-------squared error: 3.9131 parameter: [18.398       0.67582516 -1.9581398
6 -0.16273371]
Round6859-------squared error: 3.9131 parameter: [18.398       0.67582385 -1.9581410
5 -0.16273351]
Round6860-------squared error: 3.9131 parameter: [18.398       0.67582254 -1.9581422
3 -0.16273331]
Round6861-------squared error: 3.9131 parameter: [18.398       0.67582123 -1.9581434
2 -0.16273311]
Round6862-------squared error: 3.9131 parameter: [18.398       0.67581992 -1.9581446
-0.16273291]
Round6863-------squared error: 3.9131 parameter: [18.398       0.67581862 -1.9581457
8 -0.16273271]
Round6864-------squared error: 3.9131 parameter: [18.398       0.67581731 -1.9581469
7 -0.16273251]
Round6865-------squared error: 3.9131 parameter: [18.398       0.67581601 -1.9581481
5 -0.16273231]
Round6866-------squared error: 3.9131 parameter: [18.398       0.67581471 -1.9581493
2 -0.16273212]
Round6867-------squared error: 3.9131 parameter: [18.398       0.67581341 -1.9581505
-0.16273192]
Round6868-------squared error: 3.9131 parameter: [18.398       0.67581211 -1.9581516
8 -0.16273172]
Round6869-------squared error: 3.9131 parameter: [18.398       0.67581081 -1.9581528
5 -0.16273152]
Round6870-------squared error: 3.9131 parameter: [18.398       0.67580951 -1.9581540
3 -0.16273132]
Round6871-------squared error: 3.9131 parameter: [18.398       0.67580822 -1.9581552
-0.16273112]
Round6872-------squared error: 3.9131 parameter: [18.398       0.67580692 -1.9581563
7 -0.16273093]
Round6873-------squared error: 3.9131 parameter: [18.398       0.67580563 -1.9581575
4 -0.16273073]
Round6874-------squared error: 3.9131 parameter: [18.398       0.67580434 -1.9581587
1 -0.16273053]
Round6875-------squared error: 3.9131 parameter: [18.398       0.67580305 -1.9581598
8 -0.16273033]
Round6876-------squared error: 3.9131 parameter: [18.398       0.67580176 -1.9581610
5 -0.16273014]
Round6877-------squared error: 3.9131 parameter: [18.398       0.67580047 -1.9581622
2 -0.16272994]
Round6878-------squared error: 3.9131 parameter: [18.398       0.67579918 -1.9581633
8 -0.16272974]
Round6879-------squared error: 3.9131 parameter: [18.398       0.6757979  -1.9581645
4 -0.16272955]
Round6880-------squared error: 3.9131 parameter: [18.398       0.67579661 -1.9581657
1 -0.16272935]
```

```
Round6881-------squared error: 3.9131 parameter: [18.398       0.67579533 -1.9581668
7 -0.16272916]
Round6882-------squared error: 3.9131 parameter: [18.398       0.67579405 -1.9581680
3 -0.16272896]
Round6883-------squared error: 3.9131 parameter: [18.398       0.67579277 -1.9581691
9 -0.16272876]
Round6884-------squared error: 3.9131 parameter: [18.398       0.67579149 -1.9581703
5 -0.16272857]
Round6885-------squared error: 3.9131 parameter: [18.398       0.67579021 -1.9581715
1 -0.16272837]
Round6886-------squared error: 3.9131 parameter: [18.398       0.67578893 -1.9581726
6 -0.16272818]
Round6887-------squared error: 3.9131 parameter: [18.398       0.67578766 -1.9581738
2 -0.16272798]
Round6888-------squared error: 3.9131 parameter: [18.398       0.67578638 -1.9581749
7 -0.16272779]
Round6889-------squared error: 3.9131 parameter: [18.398       0.67578511 -1.9581761
2 -0.16272759]
Round6890-------squared error: 3.9131 parameter: [18.398       0.67578383 -1.9581772
8 -0.1627274 ]
Round6891-------squared error: 3.9131 parameter: [18.398       0.67578256 -1.9581784
3 -0.16272721]
Round6892-------squared error: 3.9131 parameter: [18.398       0.67578129 -1.9581795
8 -0.16272701]
Round6893-------squared error: 3.9131 parameter: [18.398       0.67578003 -1.9581807
2 -0.16272682]
Round6894-------squared error: 3.9131 parameter: [18.398       0.67577876 -1.9581818
7 -0.16272662]
Round6895-------squared error: 3.9131 parameter: [18.398       0.67577749 -1.9581830
2 -0.16272643]
Round6896-------squared error: 3.9131 parameter: [18.398       0.67577623 -1.9581841
6 -0.16272624]
Round6897-------squared error: 3.9131 parameter: [18.398       0.67577496 -1.9581853
1 -0.16272604]
Round6898-------squared error: 3.9131 parameter: [18.398       0.6757737  -1.9581864
5 -0.16272585]
Round6899-------squared error: 3.9131 parameter: [18.398       0.67577244 -1.9581875
9 -0.16272566]
Round6900-------squared error: 3.9131 parameter: [18.398       0.67577118 -1.9581887
3 -0.16272547]
Round6901-------squared error: 3.9131 parameter: [18.398       0.67576992 -1.9581898
7 -0.16272527]
Round6902-------squared error: 3.9131 parameter: [18.398       0.67576866 -1.9581910
1 -0.16272508]
Round6903-------squared error: 3.9131 parameter: [18.398       0.67576741 -1.9581921
5 -0.16272489]
Round6904-------squared error: 3.9131 parameter: [18.398       0.67576615 -1.9581932
8 -0.1627247 ]
Round6905-------squared error: 3.9131 parameter: [18.398       0.6757649  -1.9581944
2 -0.16272451]
Round6906-------squared error: 3.9131 parameter: [18.398       0.67576365 -1.9581955
5 -0.16272432]
Round6907-------squared error: 3.9131 parameter: [18.398       0.67576239 -1.9581966
9 -0.16272412]
Round6908-------squared error: 3.9131 parameter: [18.398       0.67576114 -1.9581978
2 -0.16272393]
Round6909-------squared error: 3.9131 parameter: [18.398       0.67575989 -1.9581989
5 -0.16272374]
Round6910-------squared error: 3.9131 parameter: [18.398       0.67575865 -1.9582000
8 -0.16272355]
Round6911-------squared error: 3.9131 parameter: [18.398       0.6757574  -1.9582012
1 -0.16272336]
Round6912-------squared error: 3.9131 parameter: [18.398       0.67575615 -1.9582023
4 -0.16272317]
```

```
Round6913-------squared error: 3.9131 parameter: [18.398       0.67575491 -1.9582034
6 -0.16272298]
Round6914-------squared error: 3.9131 parameter: [18.398       0.67575367 -1.9582045
9 -0.16272279]
Round6915-------squared error: 3.9131 parameter: [18.398       0.67575242 -1.9582057
1 -0.1627226 ]
Round6916-------squared error: 3.9131 parameter: [18.398       0.67575118 -1.9582068
3 -0.16272241]
Round6917-------squared error: 3.9131 parameter: [18.398       0.67574994 -1.9582079
6 -0.16272222]
Round6918-------squared error: 3.9131 parameter: [18.398       0.67574871 -1.9582090
8 -0.16272203]
Round6919-------squared error: 3.9131 parameter: [18.398       0.67574747 -1.9582102
-0.16272184]
Round6920-------squared error: 3.9131 parameter: [18.398       0.67574623 -1.9582113
2 -0.16272166]
Round6921-------squared error: 3.9131 parameter: [18.398       0.675745   -1.9582124
3 -0.16272147]
Round6922-------squared error: 3.9131 parameter: [18.398       0.67574376 -1.9582135
5 -0.16272128]
Round6923-------squared error: 3.9131 parameter: [18.398       0.67574253 -1.9582146
7 -0.16272109]
Round6924-------squared error: 3.9131 parameter: [18.398       0.6757413  -1.9582157
8 -0.1627209 ]
Round6925-------squared error: 3.9131 parameter: [18.398       0.67574007 -1.9582169
-0.16272071]
Round6926-------squared error: 3.9131 parameter: [18.398       0.67573884 -1.9582180
1 -0.16272053]
Round6927-------squared error: 3.9131 parameter: [18.398       0.67573761 -1.9582191
2 -0.16272034]
Round6928-------squared error: 3.9131 parameter: [18.398       0.67573639 -1.9582202
3 -0.16272015]
Round6929-------squared error: 3.9131 parameter: [18.398       0.67573516 -1.9582213
4 -0.16271997]
Round6930-------squared error: 3.9131 parameter: [18.398       0.67573394 -1.9582224
5 -0.16271978]
Round6931-------squared error: 3.9131 parameter: [18.398       0.67573271 -1.9582235
5 -0.16271959]
Round6932-------squared error: 3.9131 parameter: [18.398       0.67573149 -1.9582246
6 -0.1627194 ]
Round6933-------squared error: 3.9131 parameter: [18.398       0.67573027 -1.9582257
7 -0.16271922]
Round6934-------squared error: 3.9131 parameter: [18.398       0.67572905 -1.9582268
7 -0.16271903]
Round6935-------squared error: 3.9131 parameter: [18.398       0.67572783 -1.9582279
7 -0.16271885]
Round6936-------squared error: 3.9131 parameter: [18.398       0.67572662 -1.9582290
7 -0.16271866]
Round6937-------squared error: 3.9131 parameter: [18.398       0.6757254  -1.9582301
8 -0.16271847]
Round6938-------squared error: 3.9131 parameter: [18.398       0.67572419 -1.9582312
7 -0.16271829]
Round6939-------squared error: 3.9131 parameter: [18.398       0.67572297 -1.9582323
7 -0.1627181 ]
Round6940-------squared error: 3.9131 parameter: [18.398       0.67572176 -1.9582334
7 -0.16271792]
Round6941-------squared error: 3.9131 parameter: [18.398       0.67572055 -1.9582345
7 -0.16271773]
Round6942-------squared error: 3.9131 parameter: [18.398       0.67571934 -1.9582356
6 -0.16271755]
Round6943-------squared error: 3.9131 parameter: [18.398       0.67571813 -1.9582367
6 -0.16271736]
Round6944-------squared error: 3.9131 parameter: [18.398       0.67571692 -1.9582378
5 -0.16271718]
```

```
Round6945-------squared error: 3.9131 parameter: [18.398       0.67571572 -1.9582389
4 -0.16271699]
Round6946-------squared error: 3.9131 parameter: [18.398       0.67571451 -1.9582400
3 -0.16271681]
Round6947-------squared error: 3.9131 parameter: [18.398       0.67571331 -1.9582411
2 -0.16271663]
Round6948-------squared error: 3.9131 parameter: [18.398       0.6757121  -1.9582422
1 -0.16271644]
Round6949-------squared error: 3.9131 parameter: [18.398       0.6757109  -1.9582433
-0.16271626]
Round6950-------squared error: 3.9131 parameter: [18.398       0.6757097  -1.9582443
9 -0.16271608]
Round6951-------squared error: 3.9131 parameter: [18.398       0.6757085  -1.9582454
8 -0.16271589]
Round6952-------squared error: 3.9131 parameter: [18.398       0.6757073  -1.9582465
6 -0.16271571]
Round6953-------squared error: 3.9131 parameter: [18.398       0.67570611 -1.9582476
4 -0.16271553]
Round6954-------squared error: 3.9131 parameter: [18.398       0.67570491 -1.9582487
3 -0.16271534]
Round6955-------squared error: 3.9131 parameter: [18.398       0.67570371 -1.9582498
1 -0.16271516]
Round6956-------squared error: 3.9131 parameter: [18.398       0.67570252 -1.9582508
9 -0.16271498]
Round6957-------squared error: 3.9131 parameter: [18.398       0.67570133 -1.9582519
7 -0.1627148 ]
Round6958-------squared error: 3.9131 parameter: [18.398       0.67570014 -1.9582530
5 -0.16271461]
Round6959-------squared error: 3.9131 parameter: [18.398       0.67569895 -1.9582541
3 -0.16271443]
Round6960-------squared error: 3.9131 parameter: [18.398       0.67569776 -1.9582552
-0.16271425]
Round6961-------squared error: 3.9131 parameter: [18.398       0.67569657 -1.9582562
8 -0.16271407]
Round6962-------squared error: 3.9131 parameter: [18.398       0.67569538 -1.9582573
5 -0.16271389]
Round6963-------squared error: 3.9131 parameter: [18.398       0.6756942  -1.9582584
3 -0.16271371]
Round6964-------squared error: 3.9131 parameter: [18.398       0.67569301 -1.9582595
-0.16271353]
Round6965-------squared error: 3.9131 parameter: [18.398       0.67569183 -1.9582605
7 -0.16271335]
Round6966-------squared error: 3.9131 parameter: [18.398       0.67569065 -1.9582616
4 -0.16271317]
Round6967-------squared error: 3.9131 parameter: [18.398       0.67568946 -1.9582627
1 -0.16271298]
Round6968-------squared error: 3.9131 parameter: [18.398       0.67568828 -1.9582637
8 -0.1627128 ]
Round6969-------squared error: 3.9131 parameter: [18.398       0.67568711 -1.9582648
5 -0.16271262]
Round6970-------squared error: 3.9131 parameter: [18.398       0.67568593 -1.9582659
1 -0.16271244]
Round6971-------squared error: 3.9131 parameter: [18.398       0.67568475 -1.9582669
8 -0.16271226]
Round6972-------squared error: 3.9131 parameter: [18.398       0.67568357 -1.9582680
4 -0.16271209]
Round6973-------squared error: 3.9131 parameter: [18.398       0.6756824  -1.9582691
-0.16271191]
Round6974-------squared error: 3.9131 parameter: [18.398       0.67568123 -1.9582701
7 -0.16271173]
Round6975-------squared error: 3.9131 parameter: [18.398       0.67568005 -1.9582712
3 -0.16271155]
Round6976-------squared error: 3.9131 parameter: [18.398       0.67567888 -1.9582722
9 -0.16271137]
```

```
Round6977-------squared error: 3.9131 parameter: [18.398       0.67567771 -1.9582733
5 -0.16271119]
Round6978-------squared error: 3.9131 parameter: [18.398       0.67567655 -1.9582744
1 -0.16271101]
Round6979-------squared error: 3.9131 parameter: [18.398       0.67567538 -1.9582754
6 -0.16271083]
Round6980-------squared error: 3.9131 parameter: [18.398       0.67567421 -1.9582765
2 -0.16271065]
Round6981-------squared error: 3.9131 parameter: [18.398       0.67567305 -1.9582775
7 -0.16271048]
Round6982-------squared error: 3.9131 parameter: [18.398       0.67567188 -1.9582786
3 -0.1627103 ]
Round6983-------squared error: 3.9131 parameter: [18.398       0.67567072 -1.9582796
8 -0.16271012]
Round6984-------squared error: 3.9131 parameter: [18.398       0.67566956 -1.9582807
3 -0.16270994]
Round6985-------squared error: 3.9131 parameter: [18.398       0.67566839 -1.9582817
8 -0.16270977]
Round6986-------squared error: 3.9131 parameter: [18.398       0.67566724 -1.9582828
3 -0.16270959]
Round6987-------squared error: 3.9131 parameter: [18.398       0.67566608 -1.9582838
8 -0.16270941]
Round6988-------squared error: 3.9131 parameter: [18.398       0.67566492 -1.9582849
3 -0.16270924]
Round6989-------squared error: 3.9131 parameter: [18.398       0.67566376 -1.9582859
8 -0.16270906]
Round6990-------squared error: 3.9131 parameter: [18.398       0.67566261 -1.9582870
2 -0.16270888]
Round6991-------squared error: 3.9131 parameter: [18.398       0.67566145 -1.9582880
7 -0.16270871]
Round6992-------squared error: 3.9131 parameter: [18.398       0.6756603  -1.9582891
1 -0.16270853]
Round6993-------squared error: 3.9131 parameter: [18.398       0.67565915 -1.9582901
6 -0.16270835]
Round6994-------squared error: 3.9131 parameter: [18.398       0.675658   -1.9582912
-0.16270818]
Round6995-------squared error: 3.9131 parameter: [18.398       0.67565685 -1.9582922
4 -0.162708  ]
Round6996-------squared error: 3.9131 parameter: [18.398       0.6756557  -1.9582932
8 -0.16270783]
Round6997-------squared error: 3.9131 parameter: [18.398       0.67565455 -1.9582943
2 -0.16270765]
Round6998-------squared error: 3.9131 parameter: [18.398       0.6756534  -1.9582953
6 -0.16270748]
Round6999-------squared error: 3.9131 parameter: [18.398       0.67565226 -1.9582963
9 -0.1627073 ]
Round7000-------squared error: 3.9131 parameter: [18.398       0.67565111 -1.9582974
3 -0.16270713]
Round7001-------squared error: 3.9131 parameter: [18.398       0.67564997 -1.9582984
6 -0.16270695]
Round7002-------squared error: 3.9131 parameter: [18.398       0.67564883 -1.9582995
-0.16270678]
Round7003-------squared error: 3.9131 parameter: [18.398       0.67564769 -1.9583005
3 -0.1627066 ]
Round7004-------squared error: 3.9131 parameter: [18.398       0.67564655 -1.9583015
6 -0.16270643]
Round7005-------squared error: 3.9131 parameter: [18.398       0.67564541 -1.9583025
9 -0.16270626]
Round7006-------squared error: 3.9131 parameter: [18.398       0.67564427 -1.9583036
2 -0.16270608]
Round7007-------squared error: 3.9131 parameter: [18.398       0.67564313 -1.9583046
5 -0.16270591]
Round7008-------squared error: 3.9131 parameter: [18.398       0.675642   -1.9583056
8 -0.16270573]
```

```
Round7009-------squared error: 3.9131 parameter: [18.398       0.67564086 -1.9583067
1 -0.16270556]
Round7010-------squared error: 3.9131 parameter: [18.398       0.67563973 -1.9583077
3 -0.16270539]
Round7011-------squared error: 3.9131 parameter: [18.398       0.6756386  -1.9583087
6 -0.16270522]
Round7012-------squared error: 3.9131 parameter: [18.398       0.67563747 -1.9583097
8 -0.16270504]
Round7013-------squared error: 3.9131 parameter: [18.398       0.67563634 -1.9583108
1 -0.16270487]
Round7014-------squared error: 3.9131 parameter: [18.398       0.67563521 -1.9583118
3 -0.1627047 ]
Round7015-------squared error: 3.9131 parameter: [18.398       0.67563408 -1.9583128
5 -0.16270452]
Round7016-------squared error: 3.9131 parameter: [18.398       0.67563295 -1.9583138
7 -0.16270435]
Round7017-------squared error: 3.9131 parameter: [18.398       0.67563183 -1.9583148
9 -0.16270418]
Round7018-------squared error: 3.9131 parameter: [18.398       0.6756307  -1.9583159
1 -0.16270401]
Round7019-------squared error: 3.9131 parameter: [18.398       0.67562958 -1.9583169
2 -0.16270384]
Round7020-------squared error: 3.9131 parameter: [18.398       0.67562846 -1.9583179
4 -0.16270367]
Round7021-------squared error: 3.9131 parameter: [18.398       0.67562734 -1.9583189
5 -0.16270349]
Round7022-------squared error: 3.9131 parameter: [18.398       0.67562622 -1.9583199
7 -0.16270332]
Round7023-------squared error: 3.9131 parameter: [18.398       0.6756251  -1.9583209
8 -0.16270315]
Round7024-------squared error: 3.9131 parameter: [18.398       0.67562398 -1.9583219
9 -0.16270298]
Round7025-------squared error: 3.9131 parameter: [18.398       0.67562286 -1.9583230
1 -0.16270281]
Round7026-------squared error: 3.9131 parameter: [18.398       0.67562175 -1.9583240
2 -0.16270264]
Round7027-------squared error: 3.9131 parameter: [18.398       0.67562063 -1.9583250
3 -0.16270247]
Round7028-------squared error: 3.9131 parameter: [18.398       0.67561952 -1.9583260
3 -0.1627023 ]
Round7029-------squared error: 3.9131 parameter: [18.398       0.6756184  -1.9583270
4 -0.16270213]
Round7030-------squared error: 3.9131 parameter: [18.398       0.67561729 -1.9583280
5 -0.16270196]
Round7031-------squared error: 3.9131 parameter: [18.398       0.67561618 -1.9583290
5 -0.16270179]
Round7032-------squared error: 3.9131 parameter: [18.398       0.67561507 -1.9583300
6 -0.16270162]
Round7033-------squared error: 3.9131 parameter: [18.398       0.67561396 -1.9583310
6 -0.16270145]
Round7034-------squared error: 3.9131 parameter: [18.398       0.67561286 -1.9583320
6 -0.16270128]
Round7035-------squared error: 3.9131 parameter: [18.398       0.67561175 -1.9583330
7 -0.16270111]
Round7036-------squared error: 3.9131 parameter: [18.398       0.67561065 -1.9583340
7 -0.16270095]
Round7037-------squared error: 3.9131 parameter: [18.398       0.67560954 -1.9583350
7 -0.16270078]
Round7038-------squared error: 3.9131 parameter: [18.398       0.67560844 -1.9583360
6 -0.16270061]
Round7039-------squared error: 3.9131 parameter: [18.398       0.67560734 -1.9583370
6 -0.16270044]
Round7040-------squared error: 3.9131 parameter: [18.398       0.67560623 -1.9583380
6 -0.16270027]
```

```
Round7041-------squared error: 3.9131 parameter: [18.398       0.67560513 -1.9583390
5 -0.1627001 ]
Round7042-------squared error: 3.9131 parameter: [18.398       0.67560404 -1.9583400
5 -0.16269994]
Round7043-------squared error: 3.9131 parameter: [18.398       0.67560294 -1.9583410
4 -0.16269977]
Round7044-------squared error: 3.9131 parameter: [18.398       0.67560184 -1.9583420
4 -0.1626996 ]
Round7045-------squared error: 3.9131 parameter: [18.398       0.67560075 -1.9583430
3 -0.16269943]
Round7046-------squared error: 3.9131 parameter: [18.398       0.67559965 -1.9583440
2 -0.16269927]
Round7047-------squared error: 3.9131 parameter: [18.398       0.67559856 -1.9583450
1 -0.1626991 ]
Round7048-------squared error: 3.9131 parameter: [18.398       0.67559746 -1.958346
-0.16269893]
Round7049-------squared error: 3.9131 parameter: [18.398       0.67559637 -1.9583469
9 -0.16269876]
Round7050-------squared error: 3.9131 parameter: [18.398       0.67559528 -1.9583479
7 -0.1626986 ]
Round7051-------squared error: 3.9131 parameter: [18.398       0.67559419 -1.9583489
6 -0.16269843]
Round7052-------squared error: 3.9131 parameter: [18.398       0.6755931  -1.9583499
5 -0.16269827]
Round7053-------squared error: 3.9131 parameter: [18.398       0.67559202 -1.9583509
3 -0.1626981 ]
Round7054-------squared error: 3.9131 parameter: [18.398       0.67559093 -1.9583519
1 -0.16269793]
Round7055-------squared error: 3.9131 parameter: [18.398       0.67558985 -1.9583529
-0.16269777]
Round7056-------squared error: 3.9131 parameter: [18.398       0.67558876 -1.9583538
8 -0.1626976 ]
Round7057-------squared error: 3.9131 parameter: [18.398       0.67558768 -1.9583548
6 -0.16269744]
Round7058-------squared error: 3.9131 parameter: [18.398       0.6755866  -1.9583558
4 -0.16269727]
Round7059-------squared error: 3.9131 parameter: [18.398       0.67558551 -1.9583568
2 -0.16269711]
Round7060-------squared error: 3.9131 parameter: [18.398       0.67558443 -1.9583577
9 -0.16269694]
Round7061-------squared error: 3.9131 parameter: [18.398       0.67558336 -1.9583587
7 -0.16269678]
Round7062-------squared error: 3.9131 parameter: [18.398       0.67558228 -1.9583597
5 -0.16269661]
Round7063-------squared error: 3.9131 parameter: [18.398       0.6755812  -1.9583607
2 -0.16269645]
Round7064-------squared error: 3.9131 parameter: [18.398       0.67558013 -1.9583617
-0.16269628]
Round7065-------squared error: 3.9131 parameter: [18.398       0.67557905 -1.9583626
7 -0.16269612]
Round7066-------squared error: 3.9131 parameter: [18.398       0.67557798 -1.9583636
4 -0.16269595]
Round7067-------squared error: 3.9131 parameter: [18.398       0.6755769  -1.9583646
1 -0.16269579]
Round7068-------squared error: 3.9131 parameter: [18.398       0.67557583 -1.9583655
8 -0.16269563]
Round7069-------squared error: 3.9131 parameter: [18.398       0.67557476 -1.9583665
5 -0.16269546]
Round7070-------squared error: 3.9131 parameter: [18.398       0.67557369 -1.9583675
2 -0.1626953 ]
Round7071-------squared error: 3.9131 parameter: [18.398       0.67557262 -1.9583684
9 -0.16269514]
Round7072-------squared error: 3.9131 parameter: [18.398       0.67557156 -1.9583694
5 -0.16269497]
```

```
Round7073-------squared error: 3.9131 parameter: [18.398       0.67557049 -1.9583704
2 -0.16269481]
Round7074-------squared error: 3.9131 parameter: [18.398       0.67556942 -1.9583713
8 -0.16269465]
Round7075-------squared error: 3.9131 parameter: [18.398       0.67556836 -1.9583723
5 -0.16269449]
Round7076-------squared error: 3.9131 parameter: [18.398       0.6755673  -1.9583733
1 -0.16269432]
Round7077-------squared error: 3.9131 parameter: [18.398       0.67556623 -1.9583742
7 -0.16269416]
Round7078-------squared error: 3.9131 parameter: [18.398       0.67556517 -1.9583752
3 -0.162694  ]
Round7079-------squared error: 3.9131 parameter: [18.398       0.67556411 -1.9583761
9 -0.16269384]
Round7080-------squared error: 3.9131 parameter: [18.398       0.67556305 -1.9583771
5 -0.16269368]
Round7081-------squared error: 3.9131 parameter: [18.398       0.67556199 -1.9583781
1 -0.16269351]
Round7082-------squared error: 3.9131 parameter: [18.398       0.67556094 -1.9583790
7 -0.16269335]
Round7083-------squared error: 3.9131 parameter: [18.398       0.67555988 -1.9583800
2 -0.16269319]
Round7084-------squared error: 3.9131 parameter: [18.398       0.67555882 -1.9583809
8 -0.16269303]
Round7085-------squared error: 3.9131 parameter: [18.398       0.67555777 -1.9583819
3 -0.16269287]
Round7086-------squared error: 3.9131 parameter: [18.398       0.67555672 -1.9583828
9 -0.16269271]
Round7087-------squared error: 3.9131 parameter: [18.398       0.67555566 -1.9583838
4 -0.16269255]
Round7088-------squared error: 3.9131 parameter: [18.398       0.67555461 -1.9583847
9 -0.16269239]
Round7089-------squared error: 3.9131 parameter: [18.398       0.67555356 -1.9583857
4 -0.16269223]
Round7090-------squared error: 3.9131 parameter: [18.398       0.67555251 -1.9583866
9 -0.16269207]
Round7091-------squared error: 3.9131 parameter: [18.398       0.67555147 -1.9583876
4 -0.16269191]
Round7092-------squared error: 3.9131 parameter: [18.398       0.67555042 -1.9583885
9 -0.16269175]
Round7093-------squared error: 3.9131 parameter: [18.398       0.67554937 -1.9583895
4 -0.16269159]
Round7094-------squared error: 3.9131 parameter: [18.398       0.67554833 -1.9583904
8 -0.16269143]
Round7095-------squared error: 3.9131 parameter: [18.398       0.67554728 -1.9583914
3 -0.16269127]
Round7096-------squared error: 3.9131 parameter: [18.398       0.67554624 -1.9583923
7 -0.16269111]
Round7097-------squared error: 3.9131 parameter: [18.398       0.6755452  -1.9583933
2 -0.16269095]
Round7098-------squared error: 3.9131 parameter: [18.398       0.67554416 -1.9583942
6 -0.16269079]
Round7099-------squared error: 3.9131 parameter: [18.398       0.67554312 -1.9583952
-0.16269063]
Round7100-------squared error: 3.9131 parameter: [18.398       0.67554208 -1.9583961
4 -0.16269047]
Round7101-------squared error: 3.9131 parameter: [18.398       0.67554104 -1.9583970
8 -0.16269031]
Round7102-------squared error: 3.9131 parameter: [18.398       0.67554    -1.9583980
2 -0.16269015]
Round7103-------squared error: 3.9131 parameter: [18.398       0.67553896 -1.9583989
6 -0.16269   ]
Round7104-------squared error: 3.9131 parameter: [18.398       0.67553793 -1.9583999
-0.16268984]
```

```
Round7105-------squared error: 3.9131 parameter: [18.398       0.6755369  -1.9584008
3 -0.16268968]
Round7106-------squared error: 3.9131 parameter: [18.398       0.67553586 -1.9584017
7 -0.16268952]
Round7107-------squared error: 3.9131 parameter: [18.398       0.67553483 -1.9584027
-0.16268936]
Round7108-------squared error: 3.9131 parameter: [18.398       0.6755338  -1.9584036
4 -0.16268921]
Round7109-------squared error: 3.9131 parameter: [18.398       0.67553277 -1.9584045
7 -0.16268905]
Round7110-------squared error: 3.9131 parameter: [18.398       0.67553174 -1.9584055
-0.16268889]
Round7111-------squared error: 3.9131 parameter: [18.398       0.67553071 -1.9584064
3 -0.16268874]
Round7112-------squared error: 3.9131 parameter: [18.398       0.67552968 -1.9584073
6 -0.16268858]
Round7113-------squared error: 3.9131 parameter: [18.398       0.67552866 -1.9584082
9 -0.16268842]
Round7114-------squared error: 3.9131 parameter: [18.398       0.67552763 -1.9584092
2 -0.16268826]
Round7115-------squared error: 3.9131 parameter: [18.398       0.67552661 -1.9584101
5 -0.16268811]
Round7116-------squared error: 3.9131 parameter: [18.398       0.67552558 -1.9584110
7 -0.16268795]
Round7117-------squared error: 3.9131 parameter: [18.398       0.67552456 -1.958412
-0.1626878 ]
Round7118-------squared error: 3.9131 parameter: [18.398       0.67552354 -1.9584129
2 -0.16268764]
Round7119-------squared error: 3.9131 parameter: [18.398       0.67552252 -1.9584138
5 -0.16268748]
Round7120-------squared error: 3.9131 parameter: [18.398       0.6755215  -1.9584147
7 -0.16268733]
Round7121-------squared error: 3.9131 parameter: [18.398       0.67552048 -1.9584156
9 -0.16268717]
Round7122-------squared error: 3.9131 parameter: [18.398       0.67551947 -1.9584166
1 -0.16268702]
Round7123-------squared error: 3.9131 parameter: [18.398       0.67551845 -1.9584175
3 -0.16268686]
Round7124-------squared error: 3.9131 parameter: [18.398       0.67551743 -1.9584184
5 -0.16268671]
Round7125-------squared error: 3.9131 parameter: [18.398       0.67551642 -1.9584193
7 -0.16268655]
Round7126-------squared error: 3.9131 parameter: [18.398       0.67551541 -1.9584202
9 -0.1626864 ]
Round7127-------squared error: 3.9131 parameter: [18.398       0.67551439 -1.9584212
-0.16268624]
Round7128-------squared error: 3.9131 parameter: [18.398       0.67551338 -1.9584221
2 -0.16268609]
Round7129-------squared error: 3.9131 parameter: [18.398       0.67551237 -1.9584230
3 -0.16268593]
Round7130-------squared error: 3.9131 parameter: [18.398       0.67551136 -1.9584239
5 -0.16268578]
Round7131-------squared error: 3.9131 parameter: [18.398       0.67551035 -1.9584248
6 -0.16268563]
Round7132-------squared error: 3.9131 parameter: [18.398       0.67550934 -1.9584257
7 -0.16268547]
Round7133-------squared error: 3.9131 parameter: [18.398       0.67550834 -1.9584266
9 -0.16268532]
Round7134-------squared error: 3.9131 parameter: [18.398       0.67550733 -1.9584276
-0.16268516]
Round7135-------squared error: 3.9131 parameter: [18.398       0.67550633 -1.9584285
1 -0.16268501]
Round7136-------squared error: 3.9131 parameter: [18.398       0.67550532 -1.9584294
1 -0.16268486]
```

```
Round7137-------squared error: 3.9131 parameter: [18.398       0.67550432 -1.9584303
2 -0.1626847 ]
Round7138-------squared error: 3.9131 parameter: [18.398       0.67550332 -1.9584312
3 -0.16268455]
Round7139-------squared error: 3.9131 parameter: [18.398       0.67550232 -1.9584321
3 -0.1626844 ]
Round7140-------squared error: 3.9131 parameter: [18.398       0.67550132 -1.9584330
4 -0.16268425]
Round7141-------squared error: 3.9131 parameter: [18.398       0.67550032 -1.9584339
4 -0.16268409]
Round7142-------squared error: 3.9131 parameter: [18.398       0.67549932 -1.9584348
5 -0.16268394]
Round7143-------squared error: 3.9131 parameter: [18.398       0.67549832 -1.9584357
5 -0.16268379]
Round7144-------squared error: 3.9131 parameter: [18.398       0.67549733 -1.9584366
5 -0.16268364]
Round7145-------squared error: 3.9131 parameter: [18.398       0.67549633 -1.9584375
5 -0.16268348]
Round7146-------squared error: 3.9131 parameter: [18.398       0.67549534 -1.9584384
5 -0.16268333]
Round7147-------squared error: 3.9131 parameter: [18.398       0.67549435 -1.9584393
5 -0.16268318]
Round7148-------squared error: 3.9131 parameter: [18.398       0.67549335 -1.9584402
5 -0.16268303]
Round7149-------squared error: 3.9131 parameter: [18.398       0.67549236 -1.9584411
5 -0.16268288]
Round7150-------squared error: 3.9131 parameter: [18.398       0.67549137 -1.9584420
4 -0.16268273]
Round7151-------squared error: 3.9131 parameter: [18.398       0.67549038 -1.9584429
4 -0.16268257]
Round7152-------squared error: 3.9131 parameter: [18.398       0.67548939 -1.9584438
4 -0.16268242]
Round7153-------squared error: 3.9131 parameter: [18.398       0.67548841 -1.9584447
3 -0.16268227]
Round7154-------squared error: 3.9131 parameter: [18.398       0.67548742 -1.9584456
2 -0.16268212]
Round7155-------squared error: 3.9131 parameter: [18.398       0.67548643 -1.9584465
1 -0.16268197]
Round7156-------squared error: 3.9131 parameter: [18.398       0.67548545 -1.9584474
1 -0.16268182]
Round7157-------squared error: 3.9131 parameter: [18.398       0.67548447 -1.9584483
-0.16268167]
Round7158-------squared error: 3.9131 parameter: [18.398       0.67548348 -1.9584491
9 -0.16268152]
Round7159-------squared error: 3.9131 parameter: [18.398       0.6754825  -1.9584500
7 -0.16268137]
Round7160-------squared error: 3.9131 parameter: [18.398       0.67548152 -1.9584509
6 -0.16268122]
Round7161-------squared error: 3.9131 parameter: [18.398       0.67548054 -1.9584518
5 -0.16268107]
Round7162-------squared error: 3.9131 parameter: [18.398       0.67547956 -1.9584527
4 -0.16268092]
Round7163-------squared error: 3.9131 parameter: [18.398       0.67547858 -1.9584536
2 -0.16268077]
Round7164-------squared error: 3.9131 parameter: [18.398       0.67547761 -1.9584545
1 -0.16268062]
Round7165-------squared error: 3.9131 parameter: [18.398       0.67547663 -1.9584553
9 -0.16268047]
Round7166-------squared error: 3.9131 parameter: [18.398       0.67547566 -1.9584562
7 -0.16268033]
Round7167-------squared error: 3.9131 parameter: [18.398       0.67547468 -1.9584571
5 -0.16268018]
Round7168-------squared error: 3.9131 parameter: [18.398       0.67547371 -1.9584580
4 -0.16268003]
```

```
Round7169-------squared error: 3.9131 parameter: [18.398       0.67547274 -1.9584589
2 -0.16267988]
Round7170-------squared error: 3.9131 parameter: [18.398       0.67547176 -1.9584598
-0.16267973]
Round7171-------squared error: 3.9131 parameter: [18.398       0.67547079 -1.9584606
7 -0.16267958]
Round7172-------squared error: 3.9131 parameter: [18.398       0.67546982 -1.9584615
5 -0.16267943]
Round7173-------squared error: 3.9131 parameter: [18.398       0.67546886 -1.9584624
3 -0.16267929]
Round7174-------squared error: 3.9131 parameter: [18.398       0.67546789 -1.9584633
-0.16267914]
Round7175-------squared error: 3.9131 parameter: [18.398       0.67546692 -1.9584641
8 -0.16267899]
Round7176-------squared error: 3.9131 parameter: [18.398       0.67546596 -1.9584650
5 -0.16267884]
Round7177-------squared error: 3.9131 parameter: [18.398       0.67546499 -1.9584659
3 -0.1626787 ]
Round7178-------squared error: 3.9131 parameter: [18.398       0.67546403 -1.9584668
-0.16267855]
Round7179-------squared error: 3.9131 parameter: [18.398       0.67546306 -1.9584676
7 -0.1626784 ]
Round7180-------squared error: 3.9131 parameter: [18.398       0.6754621  -1.9584685
4 -0.16267825]
Round7181-------squared error: 3.9131 parameter: [18.398       0.67546114 -1.9584694
1 -0.16267811]
Round7182-------squared error: 3.9131 parameter: [18.398       0.67546018 -1.9584702
8 -0.16267796]
Round7183-------squared error: 3.9131 parameter: [18.398       0.67545922 -1.9584711
5 -0.16267781]
Round7184-------squared error: 3.9131 parameter: [18.398       0.67545826 -1.9584720
2 -0.16267767]
Round7185-------squared error: 3.9131 parameter: [18.398       0.67545731 -1.9584728
9 -0.16267752]
Round7186-------squared error: 3.9131 parameter: [18.398       0.67545635 -1.9584737
5 -0.16267738]
Round7187-------squared error: 3.9131 parameter: [18.398       0.67545539 -1.9584746
2 -0.16267723]
Round7188-------squared error: 3.9131 parameter: [18.398       0.67545444 -1.9584754
8 -0.16267708]
Round7189-------squared error: 3.9131 parameter: [18.398       0.67545348 -1.9584763
4 -0.16267694]
Round7190-------squared error: 3.9131 parameter: [18.398       0.67545253 -1.9584772
1 -0.16267679]
Round7191-------squared error: 3.9131 parameter: [18.398       0.67545158 -1.9584780
7 -0.16267665]
Round7192-------squared error: 3.9131 parameter: [18.398       0.67545063 -1.9584789
3 -0.1626765 ]
Round7193-------squared error: 3.9131 parameter: [18.398       0.67544968 -1.9584797
9 -0.16267636]
Round7194-------squared error: 3.9131 parameter: [18.398       0.67544873 -1.9584806
5 -0.16267621]
Round7195-------squared error: 3.9131 parameter: [18.398       0.67544778 -1.9584815
1 -0.16267607]
Round7196-------squared error: 3.9131 parameter: [18.398       0.67544683 -1.9584823
7 -0.16267592]
Round7197-------squared error: 3.9131 parameter: [18.398       0.67544589 -1.9584832
2 -0.16267578]
Round7198-------squared error: 3.9131 parameter: [18.398       0.67544494 -1.9584840
8 -0.16267563]
Round7199-------squared error: 3.9131 parameter: [18.398       0.675444   -1.9584849
3 -0.16267549]
Round7200-------squared error: 3.9131 parameter: [18.398       0.67544305 -1.9584857
9 -0.16267535]
```

```
Round7201-------squared error: 3.9131 parameter: [18.398       0.67544211 -1.9584866
4 -0.1626752 ]
Round7202-------squared error: 3.9131 parameter: [18.398       0.67544117 -1.9584874
9 -0.16267506]
Round7203-------squared error: 3.9131 parameter: [18.398       0.67544023 -1.9584883
5 -0.16267491]
Round7204-------squared error: 3.9131 parameter: [18.398       0.67543929 -1.9584892
-0.16267477]
Round7205-------squared error: 3.9131 parameter: [18.398       0.67543835 -1.9584900
5 -0.16267463]
Round7206-------squared error: 3.9131 parameter: [18.398       0.67543741 -1.9584909
-0.16267448]
Round7207-------squared error: 3.9131 parameter: [18.398       0.67543647 -1.9584917
5 -0.16267434]
Round7208-------squared error: 3.9131 parameter: [18.398       0.67543554 -1.9584925
9 -0.1626742 ]
Round7209-------squared error: 3.9131 parameter: [18.398       0.6754346  -1.9584934
4 -0.16267405]
Round7210-------squared error: 3.9131 parameter: [18.398       0.67543367 -1.9584942
9 -0.16267391]
Round7211-------squared error: 3.9131 parameter: [18.398       0.67543273 -1.9584951
3 -0.16267377]
Round7212-------squared error: 3.9131 parameter: [18.398       0.6754318  -1.9584959
8 -0.16267363]
Round7213-------squared error: 3.9131 parameter: [18.398       0.67543087 -1.9584968
2 -0.16267348]
Round7214-------squared error: 3.9131 parameter: [18.398       0.67542994 -1.9584976
6 -0.16267334]
Round7215-------squared error: 3.9131 parameter: [18.398       0.67542901 -1.9584985
1 -0.1626732 ]
Round7216-------squared error: 3.9131 parameter: [18.398       0.67542808 -1.9584993
5 -0.16267306]
Round7217-------squared error: 3.9131 parameter: [18.398       0.67542715 -1.9585001
9 -0.16267292]
Round7218-------squared error: 3.9131 parameter: [18.398       0.67542622 -1.9585010
3 -0.16267277]
Round7219-------squared error: 3.9131 parameter: [18.398       0.67542529 -1.9585018
7 -0.16267263]
Round7220-------squared error: 3.9131 parameter: [18.398       0.67542437 -1.9585027
-0.16267249]
Round7221-------squared error: 3.9131 parameter: [18.398       0.67542344 -1.9585035
4 -0.16267235]
Round7222-------squared error: 3.9131 parameter: [18.398       0.67542252 -1.9585043
8 -0.16267221]
Round7223-------squared error: 3.9131 parameter: [18.398       0.6754216  -1.9585052
1 -0.16267207]
Round7224-------squared error: 3.9131 parameter: [18.398       0.67542067 -1.9585060
5 -0.16267193]
Round7225-------squared error: 3.9131 parameter: [18.398       0.67541975 -1.9585068
8 -0.16267179]
Round7226-------squared error: 3.9131 parameter: [18.398       0.67541883 -1.9585077
2 -0.16267165]
Round7227-------squared error: 3.9131 parameter: [18.398       0.67541791 -1.9585085
5 -0.1626715 ]
Round7228-------squared error: 3.9131 parameter: [18.398       0.67541699 -1.9585093
8 -0.16267136]
Round7229-------squared error: 3.9131 parameter: [18.398       0.67541608 -1.9585102
1 -0.16267122]
Round7230-------squared error: 3.9131 parameter: [18.398       0.67541516 -1.9585110
4 -0.16267108]
Round7231-------squared error: 3.9131 parameter: [18.398       0.67541424 -1.9585118
7 -0.16267094]
Round7232-------squared error: 3.9131 parameter: [18.398       0.67541333 -1.9585127
-0.1626708 ]
```

```
Round7233-------squared error: 3.9131 parameter: [18.398       0.67541241 -1.9585135
3 -0.16267066]
Round7234-------squared error: 3.9131 parameter: [18.398       0.6754115  -1.9585143
5 -0.16267053]
Round7235-------squared error: 3.9131 parameter: [18.398       0.67541059 -1.9585151
8 -0.16267039]
Round7236-------squared error: 3.9131 parameter: [18.398       0.67540968 -1.958516
-0.16267025]
Round7237-------squared error: 3.9131 parameter: [18.398       0.67540877 -1.9585168
3 -0.16267011]
Round7238-------squared error: 3.9131 parameter: [18.398       0.67540786 -1.9585176
5 -0.16266997]
Round7239-------squared error: 3.9131 parameter: [18.398       0.67540695 -1.9585184
8 -0.16266983]
Round7240-------squared error: 3.9131 parameter: [18.398       0.67540604 -1.9585193
-0.16266969]
Round7241-------squared error: 3.9131 parameter: [18.398       0.67540513 -1.9585201
2 -0.16266955]
Round7242-------squared error: 3.9131 parameter: [18.398       0.67540423 -1.9585209
4 -0.16266941]
Round7243-------squared error: 3.9131 parameter: [18.398       0.67540332 -1.9585217
6 -0.16266928]
Round7244-------squared error: 3.9131 parameter: [18.398       0.67540242 -1.9585225
8 -0.16266914]
Round7245-------squared error: 3.9131 parameter: [18.398       0.67540151 -1.9585234
-0.162669  ]
Round7246-------squared error: 3.9131 parameter: [18.398       0.67540061 -1.9585242
1 -0.16266886]
Round7247-------squared error: 3.9131 parameter: [18.398       0.67539971 -1.9585250
3 -0.16266872]
Round7248-------squared error: 3.9131 parameter: [18.398       0.67539881 -1.9585258
5 -0.16266859]
Round7249-------squared error: 3.9131 parameter: [18.398       0.67539791 -1.9585266
6 -0.16266845]
Round7250-------squared error: 3.9131 parameter: [18.398       0.67539701 -1.9585274
8 -0.16266831]
Round7251-------squared error: 3.9131 parameter: [18.398       0.67539611 -1.9585282
9 -0.16266817]
Round7252-------squared error: 3.9131 parameter: [18.398       0.67539521 -1.9585291
-0.16266804]
Round7253-------squared error: 3.9131 parameter: [18.398       0.67539431 -1.9585299
1 -0.1626679 ]
Round7254-------squared error: 3.9131 parameter: [18.398       0.67539342 -1.9585307
2 -0.16266776]
Round7255-------squared error: 3.9131 parameter: [18.398       0.67539252 -1.9585315
3 -0.16266763]
Round7256-------squared error: 3.9131 parameter: [18.398       0.67539163 -1.9585323
4 -0.16266749]
Round7257-------squared error: 3.9131 parameter: [18.398       0.67539073 -1.9585331
5 -0.16266735]
Round7258-------squared error: 3.9131 parameter: [18.398       0.67538984 -1.9585339
6 -0.16266722]
Round7259-------squared error: 3.9131 parameter: [18.398       0.67538895 -1.9585347
7 -0.16266708]
Round7260-------squared error: 3.9131 parameter: [18.398       0.67538806 -1.9585355
7 -0.16266694]
Round7261-------squared error: 3.9131 parameter: [18.398       0.67538717 -1.9585363
8 -0.16266681]
Round7262-------squared error: 3.9131 parameter: [18.398       0.67538628 -1.9585371
8 -0.16266667]
Round7263-------squared error: 3.9131 parameter: [18.398       0.67538539 -1.9585379
9 -0.16266654]
Round7264-------squared error: 3.9131 parameter: [18.398       0.67538451 -1.9585387
9 -0.1626664 ]
```

```
Round7265-------squared error: 3.9131 parameter: [18.398       0.67538362 -1.9585395
9 -0.16266627]
Round7266-------squared error: 3.9131 parameter: [18.398       0.67538273 -1.9585404
-0.16266613]
Round7267-------squared error: 3.9131 parameter: [18.398       0.67538185 -1.9585412
-0.162666  ]
Round7268-------squared error: 3.9131 parameter: [18.398       0.67538096 -1.958542
-0.16266586]
Round7269-------squared error: 3.9131 parameter: [18.398       0.67538008 -1.9585428
-0.16266573]
Round7270-------squared error: 3.9131 parameter: [18.398       0.6753792  -1.9585436
-0.16266559]
Round7271-------squared error: 3.9131 parameter: [18.398       0.67537832 -1.9585443
9 -0.16266546]
Round7272-------squared error: 3.9131 parameter: [18.398       0.67537744 -1.9585451
9 -0.16266532]
Round7273-------squared error: 3.9131 parameter: [18.398       0.67537656 -1.9585459
9 -0.16266519]
Round7274-------squared error: 3.9131 parameter: [18.398       0.67537568 -1.9585467
8 -0.16266505]
Round7275-------squared error: 3.9131 parameter: [18.398       0.6753748  -1.9585475
8 -0.16266492]
Round7276-------squared error: 3.9131 parameter: [18.398       0.67537392 -1.9585483
7 -0.16266479]
Round7277-------squared error: 3.9131 parameter: [18.398       0.67537305 -1.9585491
6 -0.16266465]
Round7278-------squared error: 3.9131 parameter: [18.398       0.67537217 -1.9585499
6 -0.16266452]
Round7279-------squared error: 3.9131 parameter: [18.398       0.6753713  -1.9585507
5 -0.16266438]
Round7280-------squared error: 3.9131 parameter: [18.398       0.67537042 -1.9585515
4 -0.16266425]
Round7281-------squared error: 3.9131 parameter: [18.398       0.67536955 -1.9585523
3 -0.16266412]
Round7282-------squared error: 3.9131 parameter: [18.398       0.67536868 -1.9585531
2 -0.16266398]
Round7283-------squared error: 3.9131 parameter: [18.398       0.67536781 -1.9585539
1 -0.16266385]
Round7284-------squared error: 3.9131 parameter: [18.398       0.67536694 -1.9585547
-0.16266372]
Round7285-------squared error: 3.9131 parameter: [18.398       0.67536607 -1.9585554
8 -0.16266359]
Round7286-------squared error: 3.9131 parameter: [18.398       0.6753652  -1.9585562
7 -0.16266345]
Round7287-------squared error: 3.9131 parameter: [18.398       0.67536433 -1.9585570
6 -0.16266332]
Round7288-------squared error: 3.9131 parameter: [18.398       0.67536346 -1.9585578
4 -0.16266319]
Round7289-------squared error: 3.9131 parameter: [18.398       0.6753626  -1.9585586
3 -0.16266306]
Round7290-------squared error: 3.9131 parameter: [18.398       0.67536173 -1.9585594
1 -0.16266292]
Round7291-------squared error: 3.9131 parameter: [18.398       0.67536087 -1.9585601
9 -0.16266279]
Round7292-------squared error: 3.9131 parameter: [18.398       0.67536    -1.9585609
7 -0.16266266]
Round7293-------squared error: 3.9131 parameter: [18.398       0.67535914 -1.9585617
5 -0.16266253]
Round7294-------squared error: 3.9131 parameter: [18.398       0.67535828 -1.9585625
3 -0.1626624 ]
Round7295-------squared error: 3.9131 parameter: [18.398       0.67535742 -1.9585633
1 -0.16266226]
Round7296-------squared error: 3.9131 parameter: [18.398       0.67535656 -1.9585640
9 -0.16266213]
```

```
Round7297-------squared error: 3.9131 parameter: [18.398       0.6753557  -1.9585648
7 -0.162662  ]
Round7298-------squared error: 3.9131 parameter: [18.398       0.67535484 -1.9585656
5 -0.16266187]
Round7299-------squared error: 3.9131 parameter: [18.398       0.67535398 -1.9585664
3 -0.16266174]
Round7300-------squared error: 3.9131 parameter: [18.398       0.67535312 -1.9585672
-0.16266161]
Round7301-------squared error: 3.9131 parameter: [18.398       0.67535227 -1.9585679
8 -0.16266148]
Round7302-------squared error: 3.9131 parameter: [18.398       0.67535141 -1.9585687
5 -0.16266135]
Round7303-------squared error: 3.9131 parameter: [18.398       0.67535056 -1.9585695
2 -0.16266122]
Round7304-------squared error: 3.9131 parameter: [18.398       0.6753497  -1.9585703
-0.16266109]
Round7305-------squared error: 3.9131 parameter: [18.398       0.67534885 -1.9585710
7 -0.16266096]
Round7306-------squared error: 3.9131 parameter: [18.398       0.675348   -1.9585718
4 -0.16266083]
Round7307-------squared error: 3.9131 parameter: [18.398       0.67534715 -1.9585726
1 -0.1626607 ]
Round7308-------squared error: 3.9131 parameter: [18.398       0.6753463  -1.9585733
8 -0.16266057]
Round7309-------squared error: 3.9131 parameter: [18.398       0.67534545 -1.9585741
5 -0.16266044]
Round7310-------squared error: 3.9131 parameter: [18.398       0.6753446  -1.9585749
2 -0.16266031]
Round7311-------squared error: 3.9131 parameter: [18.398       0.67534375 -1.9585756
9 -0.16266018]
Round7312-------squared error: 3.9131 parameter: [18.398       0.6753429  -1.9585764
5 -0.16266005]
Round7313-------squared error: 3.9131 parameter: [18.398       0.67534206 -1.9585772
2 -0.16265992]
Round7314-------squared error: 3.9131 parameter: [18.398       0.67534121 -1.9585779
9 -0.16265979]
Round7315-------squared error: 3.9131 parameter: [18.398       0.67534037 -1.9585787
5 -0.16265966]
Round7316-------squared error: 3.9131 parameter: [18.398       0.67533952 -1.9585795
1 -0.16265953]
Round7317-------squared error: 3.9131 parameter: [18.398       0.67533868 -1.9585802
8 -0.1626594 ]
Round7318-------squared error: 3.9131 parameter: [18.398       0.67533784 -1.9585810
4 -0.16265927]
Round7319-------squared error: 3.9131 parameter: [18.398       0.675337   -1.9585818
-0.16265914]
Round7320-------squared error: 3.9131 parameter: [18.398       0.67533616 -1.9585825
6 -0.16265902]
Round7321-------squared error: 3.9131 parameter: [18.398       0.67533532 -1.9585833
2 -0.16265889]
Round7322-------squared error: 3.9131 parameter: [18.398       0.67533448 -1.9585840
8 -0.16265876]
Round7323-------squared error: 3.9131 parameter: [18.398       0.67533364 -1.9585848
4 -0.16265863]
Round7324-------squared error: 3.9131 parameter: [18.398      0.6753328 -1.9585856 -
0.1626585]
Round7325-------squared error: 3.9131 parameter: [18.398       0.67533196 -1.9585863
6 -0.16265838]
Round7326-------squared error: 3.9131 parameter: [18.398       0.67533113 -1.9585871
1 -0.16265825]
Round7327-------squared error: 3.9131 parameter: [18.398       0.67533029 -1.9585878
7 -0.16265812]
Round7328-------squared error: 3.9131 parameter: [18.398       0.67532946 -1.9585886
3 -0.16265799]
```

```
Round7329-------squared error: 3.9131 parameter: [18.398       0.67532863 -1.9585893
8 -0.16265787]
Round7330-------squared error: 3.9131 parameter: [18.398       0.67532779 -1.9585901
3 -0.16265774]
Round7331-------squared error: 3.9131 parameter: [18.398       0.67532696 -1.9585908
9 -0.16265761]
Round7332-------squared error: 3.9131 parameter: [18.398       0.67532613 -1.9585916
4 -0.16265748]
Round7333-------squared error: 3.9131 parameter: [18.398       0.6753253  -1.9585923
9 -0.16265736]
Round7334-------squared error: 3.9131 parameter: [18.398       0.67532447 -1.9585931
4 -0.16265723]
Round7335-------squared error: 3.9131 parameter: [18.398       0.67532364 -1.9585938
9 -0.1626571 ]
Round7336-------squared error: 3.9131 parameter: [18.398       0.67532281 -1.9585946
4 -0.16265698]
Round7337-------squared error: 3.9131 parameter: [18.398       0.67532199 -1.9585953
9 -0.16265685]
Round7338-------squared error: 3.9131 parameter: [18.398       0.67532116 -1.9585961
4 -0.16265673]
Round7339-------squared error: 3.9131 parameter: [18.398       0.67532034 -1.9585968
9 -0.1626566 ]
Round7340-------squared error: 3.9131 parameter: [18.398       0.67531951 -1.9585976
3 -0.16265647]
Round7341-------squared error: 3.9131 parameter: [18.398       0.67531869 -1.9585983
8 -0.16265635]
Round7342-------squared error: 3.9131 parameter: [18.398       0.67531786 -1.9585991
2 -0.16265622]
Round7343-------squared error: 3.9131 parameter: [18.398       0.67531704 -1.9585998
7 -0.1626561 ]
Round7344-------squared error: 3.9131 parameter: [18.398       0.67531622 -1.9586006
1 -0.16265597]
Round7345-------squared error: 3.9131 parameter: [18.398       0.6753154  -1.9586013
5 -0.16265585]
Round7346-------squared error: 3.9131 parameter: [18.398       0.67531458 -1.9586021
-0.16265572]
Round7347-------squared error: 3.9131 parameter: [18.398       0.67531376 -1.9586028
4 -0.1626556 ]
Round7348-------squared error: 3.9131 parameter: [18.398       0.67531294 -1.9586035
8 -0.16265547]
Round7349-------squared error: 3.9131 parameter: [18.398       0.67531212 -1.9586043
2 -0.16265535]
Round7350-------squared error: 3.9131 parameter: [18.398       0.67531131 -1.9586050
6 -0.16265522]
Round7351-------squared error: 3.9131 parameter: [18.398       0.67531049 -1.9586058
-0.1626551 ]
Round7352-------squared error: 3.9131 parameter: [18.398       0.67530968 -1.9586065
4 -0.16265497]
Round7353-------squared error: 3.9131 parameter: [18.398       0.67530886 -1.9586072
7 -0.16265485]
Round7354-------squared error: 3.9131 parameter: [18.398       0.67530805 -1.9586080
1 -0.16265472]
Round7355-------squared error: 3.9131 parameter: [18.398       0.67530724 -1.9586087
5 -0.1626546 ]
Round7356-------squared error: 3.9131 parameter: [18.398       0.67530642 -1.9586094
8 -0.16265447]
Round7357-------squared error: 3.9131 parameter: [18.398       0.67530561 -1.9586102
2 -0.16265435]
Round7358-------squared error: 3.9131 parameter: [18.398       0.6753048  -1.9586109
5 -0.16265423]
Round7359-------squared error: 3.9131 parameter: [18.398       0.67530399 -1.9586116
8 -0.1626541 ]
Round7360-------squared error: 3.9131 parameter: [18.398       0.67530318 -1.9586124
1 -0.16265398]
```

```
Round7361-------squared error: 3.9131 parameter: [18.398       0.67530237 -1.9586131
5 -0.16265386]
Round7362-------squared error: 3.9131 parameter: [18.398       0.67530157 -1.9586138
8 -0.16265373]
Round7363-------squared error: 3.9131 parameter: [18.398       0.67530076 -1.9586146
1 -0.16265361]
Round7364-------squared error: 3.9131 parameter: [18.398       0.67529995 -1.9586153
4 -0.16265349]
Round7365-------squared error: 3.9131 parameter: [18.398       0.67529915 -1.9586160
7 -0.16265336]
Round7366-------squared error: 3.9131 parameter: [18.398       0.67529835 -1.9586167
9 -0.16265324]
Round7367-------squared error: 3.9131 parameter: [18.398       0.67529754 -1.9586175
2 -0.16265312]
Round7368-------squared error: 3.9131 parameter: [18.398       0.67529674 -1.9586182
5 -0.162653  ]
Round7369-------squared error: 3.9131 parameter: [18.398       0.67529594 -1.9586189
7 -0.16265287]
Round7370-------squared error: 3.9131 parameter: [18.398       0.67529514 -1.9586197
-0.16265275]
Round7371-------squared error: 3.9131 parameter: [18.398       0.67529434 -1.9586204
2 -0.16265263]
Round7372-------squared error: 3.9131 parameter: [18.398       0.67529354 -1.9586211
5 -0.16265251]
Round7373-------squared error: 3.9131 parameter: [18.398       0.67529274 -1.9586218
7 -0.16265238]
Round7374-------squared error: 3.9131 parameter: [18.398       0.67529194 -1.9586225
9 -0.16265226]
Round7375-------squared error: 3.9131 parameter: [18.398       0.67529114 -1.9586233
2 -0.16265214]
Round7376-------squared error: 3.9131 parameter: [18.398       0.67529035 -1.9586240
4 -0.16265202]
Round7377-------squared error: 3.9131 parameter: [18.398       0.67528955 -1.9586247
6 -0.1626519 ]
Round7378-------squared error: 3.9131 parameter: [18.398       0.67528875 -1.9586254
8 -0.16265178]
Round7379-------squared error: 3.9131 parameter: [18.398       0.67528796 -1.9586262
-0.16265165]
Round7380-------squared error: 3.9131 parameter: [18.398       0.67528717 -1.9586269
1 -0.16265153]
Round7381-------squared error: 3.9131 parameter: [18.398       0.67528637 -1.9586276
3 -0.16265141]
Round7382-------squared error: 3.9131 parameter: [18.398       0.67528558 -1.9586283
5 -0.16265129]
Round7383-------squared error: 3.9131 parameter: [18.398       0.67528479 -1.9586290
6 -0.16265117]
Round7384-------squared error: 3.9131 parameter: [18.398       0.675284   -1.9586297
8 -0.16265105]
Round7385-------squared error: 3.9131 parameter: [18.398       0.67528321 -1.9586305
-0.16265093]
Round7386-------squared error: 3.9131 parameter: [18.398       0.67528242 -1.9586312
1 -0.16265081]
Round7387-------squared error: 3.9131 parameter: [18.398       0.67528163 -1.9586319
2 -0.16265069]
Round7388-------squared error: 3.9131 parameter: [18.398       0.67528085 -1.9586326
4 -0.16265057]
Round7389-------squared error: 3.9131 parameter: [18.398       0.67528006 -1.9586333
5 -0.16265045]
Round7390-------squared error: 3.9131 parameter: [18.398       0.67527927 -1.9586340
6 -0.16265033]
Round7391-------squared error: 3.9131 parameter: [18.398       0.67527849 -1.9586347
7 -0.16265021]
Round7392-------squared error: 3.9131 parameter: [18.398       0.6752777  -1.9586354
8 -0.16265009]
```

```
Round7393-------squared error: 3.9131 parameter: [18.398       0.67527692 -1.9586361
9 -0.16264997]
Round7394-------squared error: 3.9131 parameter: [18.398       0.67527614 -1.9586369
-0.16264985]
Round7395-------squared error: 3.9131 parameter: [18.398       0.67527536 -1.9586376
1 -0.16264973]
Round7396-------squared error: 3.9131 parameter: [18.398       0.67527457 -1.9586383
1 -0.16264961]
Round7397-------squared error: 3.9131 parameter: [18.398       0.67527379 -1.9586390
2 -0.16264949]
Round7398-------squared error: 3.9131 parameter: [18.398       0.67527301 -1.9586397
3 -0.16264937]
Round7399-------squared error: 3.9131 parameter: [18.398       0.67527223 -1.9586404
3 -0.16264925]
Round7400-------squared error: 3.9131 parameter: [18.398       0.67527146 -1.9586411
4 -0.16264913]
Round7401-------squared error: 3.9131 parameter: [18.398       0.67527068 -1.9586418
4 -0.16264901]
Round7402-------squared error: 3.9131 parameter: [18.398       0.6752699  -1.9586425
4 -0.1626489 ]
Round7403-------squared error: 3.9131 parameter: [18.398       0.67526913 -1.9586432
5 -0.16264878]
Round7404-------squared error: 3.9131 parameter: [18.398       0.67526835 -1.9586439
5 -0.16264866]
Round7405-------squared error: 3.9131 parameter: [18.398       0.67526758 -1.9586446
5 -0.16264854]
Round7406-------squared error: 3.9131 parameter: [18.398       0.6752668  -1.9586453
5 -0.16264842]
Round7407-------squared error: 3.9131 parameter: [18.398       0.67526603 -1.9586460
5 -0.1626483 ]
Round7408-------squared error: 3.9131 parameter: [18.398       0.67526526 -1.9586467
5 -0.16264819]
Round7409-------squared error: 3.9131 parameter: [18.398       0.67526448 -1.9586474
5 -0.16264807]
Round7410-------squared error: 3.9131 parameter: [18.398       0.67526371 -1.9586481
5 -0.16264795]
Round7411-------squared error: 3.9131 parameter: [18.398       0.67526294 -1.9586488
4 -0.16264783]
Round7412-------squared error: 3.9131 parameter: [18.398       0.67526217 -1.9586495
4 -0.16264772]
Round7413-------squared error: 3.9131 parameter: [18.398       0.67526141 -1.9586502
4 -0.1626476 ]
Round7414-------squared error: 3.9131 parameter: [18.398       0.67526064 -1.9586509
3 -0.16264748]
Round7415-------squared error: 3.9131 parameter: [18.398       0.67525987 -1.9586516
3 -0.16264736]
Round7416-------squared error: 3.9131 parameter: [18.398       0.6752591  -1.9586523
2 -0.16264725]
Round7417-------squared error: 3.9131 parameter: [18.398       0.67525834 -1.9586530
1 -0.16264713]
Round7418-------squared error: 3.9131 parameter: [18.398       0.67525757 -1.9586537
-0.16264701]
Round7419-------squared error: 3.9131 parameter: [18.398       0.67525681 -1.9586544
-0.1626469 ]
Round7420-------squared error: 3.9131 parameter: [18.398       0.67525605 -1.9586550
9 -0.16264678]
Round7421-------squared error: 3.9131 parameter: [18.398       0.67525528 -1.9586557
8 -0.16264666]
Round7422-------squared error: 3.9131 parameter: [18.398       0.67525452 -1.9586564
7 -0.16264655]
Round7423-------squared error: 3.9131 parameter: [18.398       0.67525376 -1.9586571
6 -0.16264643]
Round7424-------squared error: 3.9131 parameter: [18.398       0.675253   -1.9586578
5 -0.16264631]
```

```
Round7425-------squared error: 3.9131 parameter: [18.398       0.67525224 -1.9586585
3 -0.1626462 ]
Round7426-------squared error: 3.9131 parameter: [18.398       0.67525148 -1.9586592
2 -0.16264608]
Round7427-------squared error: 3.9131 parameter: [18.398       0.67525072 -1.9586599
1 -0.16264597]
Round7428-------squared error: 3.9131 parameter: [18.398       0.67524996 -1.9586605
9 -0.16264585]
Round7429-------squared error: 3.9131 parameter: [18.398       0.67524921 -1.9586612
8 -0.16264573]
Round7430-------squared error: 3.9131 parameter: [18.398       0.67524845 -1.9586619
6 -0.16264562]
Round7431-------squared error: 3.9131 parameter: [18.398       0.6752477  -1.9586626
5 -0.1626455 ]
Round7432-------squared error: 3.9131 parameter: [18.398       0.67524694 -1.9586633
3 -0.16264539]
Round7433-------squared error: 3.9131 parameter: [18.398       0.67524619 -1.9586640
1 -0.16264527]
Round7434-------squared error: 3.9131 parameter: [18.398       0.67524543 -1.9586647
-0.16264516]
Round7435-------squared error: 3.9131 parameter: [18.398       0.67524468 -1.9586653
8 -0.16264504]
Round7436-------squared error: 3.9131 parameter: [18.398       0.67524393 -1.9586660
6 -0.16264493]
Round7437-------squared error: 3.9131 parameter: [18.398       0.67524318 -1.9586667
4 -0.16264481]
Round7438-------squared error: 3.9131 parameter: [18.398       0.67524243 -1.9586674
2 -0.1626447 ]
Round7439-------squared error: 3.9131 parameter: [18.398       0.67524168 -1.9586680
9 -0.16264458]
Round7440-------squared error: 3.9131 parameter: [18.398       0.67524093 -1.9586687
7 -0.16264447]
Round7441-------squared error: 3.9131 parameter: [18.398       0.67524018 -1.9586694
5 -0.16264436]
Round7442-------squared error: 3.9131 parameter: [18.398       0.67523943 -1.9586701
3 -0.16264424]
Round7443-------squared error: 3.9131 parameter: [18.398       0.67523869 -1.9586708
-0.16264413]
Round7444-------squared error: 3.9131 parameter: [18.398       0.67523794 -1.9586714
8 -0.16264401]
Round7445-------squared error: 3.9131 parameter: [18.398       0.6752372  -1.9586721
5 -0.1626439 ]
Round7446-------squared error: 3.9131 parameter: [18.398       0.67523645 -1.9586728
3 -0.16264379]
Round7447-------squared error: 3.9131 parameter: [18.398       0.67523571 -1.9586735
-0.16264367]
Round7448-------squared error: 3.9131 parameter: [18.398       0.67523496 -1.9586741
7 -0.16264356]
Round7449-------squared error: 3.9131 parameter: [18.398       0.67523422 -1.9586748
5 -0.16264345]
Round7450-------squared error: 3.9131 parameter: [18.398       0.67523348 -1.9586755
2 -0.16264333]
Round7451-------squared error: 3.9131 parameter: [18.398       0.67523274 -1.9586761
9 -0.16264322]
Round7452-------squared error: 3.9131 parameter: [18.398       0.675232   -1.9586768
6 -0.16264311]
Round7453-------squared error: 3.9131 parameter: [18.398       0.67523126 -1.9586775
3 -0.16264299]
Round7454-------squared error: 3.9131 parameter: [18.398       0.67523052 -1.9586782
-0.16264288]
Round7455-------squared error: 3.9131 parameter: [18.398       0.67522978 -1.9586788
6 -0.16264277]
Round7456-------squared error: 3.9131 parameter: [18.398       0.67522904 -1.9586795
3 -0.16264265]
```

```
Round7457-------squared error: 3.9131 parameter: [18.398       0.67522831 -1.9586802
-0.16264254]
Round7458-------squared error: 3.9131 parameter: [18.398       0.67522757 -1.9586808
7 -0.16264243]
Round7459-------squared error: 3.9131 parameter: [18.398       0.67522684 -1.9586815
3 -0.16264232]
Round7460-------squared error: 3.9131 parameter: [18.398       0.6752261  -1.9586822
-0.16264221]
Round7461-------squared error: 3.9131 parameter: [18.398       0.67522537 -1.9586828
6 -0.16264209]
Round7462-------squared error: 3.9131 parameter: [18.398       0.67522463 -1.9586835
2 -0.16264198]
Round7463-------squared error: 3.9131 parameter: [18.398       0.6752239  -1.9586841
9 -0.16264187]
Round7464-------squared error: 3.9131 parameter: [18.398       0.67522317 -1.9586848
5 -0.16264176]
Round7465-------squared error: 3.9131 parameter: [18.398       0.67522244 -1.9586855
1 -0.16264165]
Round7466-------squared error: 3.9131 parameter: [18.398       0.67522171 -1.9586861
7 -0.16264153]
Round7467-------squared error: 3.9131 parameter: [18.398       0.67522098 -1.9586868
3 -0.16264142]
Round7468-------squared error: 3.9131 parameter: [18.398       0.67522025 -1.9586874
9 -0.16264131]
Round7469-------squared error: 3.9131 parameter: [18.398       0.67521952 -1.9586881
5 -0.1626412 ]
Round7470-------squared error: 3.9131 parameter: [18.398       0.67521879 -1.9586888
1 -0.16264109]
Round7471-------squared error: 3.9131 parameter: [18.398       0.67521807 -1.9586894
7 -0.16264098]
Round7472-------squared error: 3.9131 parameter: [18.398       0.67521734 -1.9586901
3 -0.16264087]
Round7473-------squared error: 3.9131 parameter: [18.398       0.67521662 -1.9586907
8 -0.16264076]
Round7474-------squared error: 3.9131 parameter: [18.398       0.67521589 -1.9586914
4 -0.16264065]
Round7475-------squared error: 3.9131 parameter: [18.398       0.67521517 -1.9586921
-0.16264053]
Round7476-------squared error: 3.9131 parameter: [18.398       0.67521444 -1.9586927
5 -0.16264042]
Round7477-------squared error: 3.9131 parameter: [18.398       0.67521372 -1.9586934
1 -0.16264031]
Round7478-------squared error: 3.9131 parameter: [18.398       0.675213   -1.9586940
6 -0.1626402 ]
Round7479-------squared error: 3.9131 parameter: [18.398       0.67521228 -1.9586947
1 -0.16264009]
Round7480-------squared error: 3.9131 parameter: [18.398       0.67521156 -1.9586953
6 -0.16263998]
Round7481-------squared error: 3.9131 parameter: [18.398       0.67521084 -1.9586960
2 -0.16263987]
Round7482-------squared error: 3.9131 parameter: [18.398       0.67521012 -1.9586966
7 -0.16263976]
Round7483-------squared error: 3.9131 parameter: [18.398       0.6752094  -1.9586973
2 -0.16263965]
Round7484-------squared error: 3.9131 parameter: [18.398       0.67520868 -1.9586979
7 -0.16263954]
Round7485-------squared error: 3.9131 parameter: [18.398       0.67520796 -1.9586986
2 -0.16263943]
Round7486-------squared error: 3.9131 parameter: [18.398       0.67520725 -1.9586992
7 -0.16263933]
Round7487-------squared error: 3.9131 parameter: [18.398       0.67520653 -1.9586999
1 -0.16263922]
Round7488-------squared error: 3.9131 parameter: [18.398       0.67520582 -1.9587005
6 -0.16263911]
```

```
Round7489-------squared error: 3.9131 parameter: [18.398       0.6752051  -1.9587012
1 -0.162639  ]
Round7490-------squared error: 3.9131 parameter: [18.398       0.67520439 -1.9587018
5 -0.16263889]
Round7491-------squared error: 3.9131 parameter: [18.398       0.67520368 -1.9587025
-0.16263878]
Round7492-------squared error: 3.9131 parameter: [18.398       0.67520296 -1.9587031
4 -0.16263867]
Round7493-------squared error: 3.9131 parameter: [18.398       0.67520225 -1.9587037
9 -0.16263856]
Round7494-------squared error: 3.9131 parameter: [18.398       0.67520154 -1.9587044
3 -0.16263845]
Round7495-------squared error: 3.9131 parameter: [18.398       0.67520083 -1.9587050
8 -0.16263835]
Round7496-------squared error: 3.9131 parameter: [18.398       0.67520012 -1.9587057
2 -0.16263824]
Round7497-------squared error: 3.9131 parameter: [18.398       0.67519941 -1.9587063
6 -0.16263813]
Round7498-------squared error: 3.9131 parameter: [18.398       0.6751987  -1.958707
-0.16263802]
Round7499-------squared error: 3.9131 parameter: [18.398       0.675198   -1.9587076
4 -0.16263791]
Round7500-------squared error: 3.9131 parameter: [18.398       0.67519729 -1.9587082
8 -0.1626378 ]
Round7501-------squared error: 3.9131 parameter: [18.398       0.67519658 -1.9587089
2 -0.1626377 ]
Round7502-------squared error: 3.9131 parameter: [18.398       0.67519588 -1.9587095
6 -0.16263759]
Round7503-------squared error: 3.9131 parameter: [18.398       0.67519517 -1.9587102
-0.16263748]
Round7504-------squared error: 3.9131 parameter: [18.398       0.67519447 -1.9587108
3 -0.16263737]
Round7505-------squared error: 3.9131 parameter: [18.398       0.67519377 -1.9587114
7 -0.16263727]
Round7506-------squared error: 3.9131 parameter: [18.398       0.67519306 -1.9587121
1 -0.16263716]
Round7507-------squared error: 3.9131 parameter: [18.398       0.67519236 -1.9587127
4 -0.16263705]
Round7508-------squared error: 3.9131 parameter: [18.398       0.67519166 -1.9587133
8 -0.16263694]
Round7509-------squared error: 3.9131 parameter: [18.398       0.67519096 -1.9587140
1 -0.16263684]
Round7510-------squared error: 3.9131 parameter: [18.398       0.67519026 -1.9587146
5 -0.16263673]
Round7511-------squared error: 3.9131 parameter: [18.398       0.67518956 -1.9587152
8 -0.16263662]
Round7512-------squared error: 3.9131 parameter: [18.398       0.67518886 -1.9587159
1 -0.16263652]
Round7513-------squared error: 3.9131 parameter: [18.398       0.67518816 -1.9587165
4 -0.16263641]
Round7514-------squared error: 3.9131 parameter: [18.398       0.67518746 -1.9587171
8 -0.1626363 ]
Round7515-------squared error: 3.9131 parameter: [18.398       0.67518677 -1.9587178
1 -0.1626362 ]
Round7516-------squared error: 3.9131 parameter: [18.398       0.67518607 -1.9587184
4 -0.16263609]
Round7517-------squared error: 3.9131 parameter: [18.398       0.67518538 -1.9587190
7 -0.16263598]
Round7518-------squared error: 3.9131 parameter: [18.398       0.67518468 -1.9587196
9 -0.16263588]
Round7519-------squared error: 3.9131 parameter: [18.398       0.67518399 -1.9587203
2 -0.16263577]
Round7520-------squared error: 3.9131 parameter: [18.398       0.67518329 -1.9587209
5 -0.16263567]
```

```
Round7521-------squared error: 3.9131 parameter: [18.398       0.6751826  -1.9587215
8 -0.16263556]
Round7522-------squared error: 3.9131 parameter: [18.398       0.67518191 -1.9587222
-0.16263545]
Round7523-------squared error: 3.9131 parameter: [18.398       0.67518122 -1.9587228
3 -0.16263535]
Round7524-------squared error: 3.9131 parameter: [18.398       0.67518053 -1.9587234
6 -0.16263524]
Round7525-------squared error: 3.9131 parameter: [18.398       0.67517984 -1.9587240
8 -0.16263514]
Round7526-------squared error: 3.9131 parameter: [18.398       0.67517915 -1.9587247
-0.16263503]
Round7527-------squared error: 3.9131 parameter: [18.398       0.67517846 -1.9587253
3 -0.16263493]
Round7528-------squared error: 3.9131 parameter: [18.398       0.67517777 -1.9587259
5 -0.16263482]
Round7529-------squared error: 3.9131 parameter: [18.398       0.67517708 -1.9587265
7 -0.16263472]
Round7530-------squared error: 3.9131 parameter: [18.398       0.6751764  -1.9587271
9 -0.16263461]
Round7531-------squared error: 3.9131 parameter: [18.398       0.67517571 -1.9587278
2 -0.16263451]
Round7532-------squared error: 3.9131 parameter: [18.398       0.67517503 -1.9587284
4 -0.1626344 ]
Round7533-------squared error: 3.9131 parameter: [18.398       0.67517434 -1.9587290
6 -0.1626343 ]
Round7534-------squared error: 3.9131 parameter: [18.398       0.67517366 -1.9587296
8 -0.16263419]
Round7535-------squared error: 3.9131 parameter: [18.398       0.67517297 -1.9587302
9 -0.16263409]
Round7536-------squared error: 3.9131 parameter: [18.398       0.67517229 -1.9587309
1 -0.16263399]
Round7537-------squared error: 3.9131 parameter: [18.398       0.67517161 -1.9587315
3 -0.16263388]
Round7538-------squared error: 3.9131 parameter: [18.398       0.67517093 -1.9587321
5 -0.16263378]
Round7539-------squared error: 3.9131 parameter: [18.398       0.67517025 -1.9587327
6 -0.16263367]
Round7540-------squared error: 3.9131 parameter: [18.398       0.67516957 -1.9587333
8 -0.16263357]
Round7541-------squared error: 3.9131 parameter: [18.398       0.67516889 -1.9587339
9 -0.16263347]
Round7542-------squared error: 3.9131 parameter: [18.398       0.67516821 -1.9587346
1 -0.16263336]
Round7543-------squared error: 3.9131 parameter: [18.398       0.67516753 -1.9587352
2 -0.16263326]
Round7544-------squared error: 3.9131 parameter: [18.398       0.67516685 -1.9587358
4 -0.16263315]
Round7545-------squared error: 3.9131 parameter: [18.398       0.67516618 -1.9587364
5 -0.16263305]
Round7546-------squared error: 3.9131 parameter: [18.398       0.6751655  -1.9587370
6 -0.16263295]
Round7547-------squared error: 3.9131 parameter: [18.398       0.67516482 -1.9587376
7 -0.16263284]
Round7548-------squared error: 3.9131 parameter: [18.398       0.67516415 -1.9587382
8 -0.16263274]
Round7549-------squared error: 3.9131 parameter: [18.398       0.67516347 -1.9587388
9 -0.16263264]
Round7550-------squared error: 3.9131 parameter: [18.398       0.6751628  -1.9587395
-0.16263254]
Round7551-------squared error: 3.9131 parameter: [18.398       0.67516213 -1.9587401
1 -0.16263243]
Round7552-------squared error: 3.9131 parameter: [18.398       0.67516146 -1.9587407
2 -0.16263233]
```

```
Round7553-------squared error: 3.9131 parameter: [18.398       0.67516078 -1.9587413
3 -0.16263223]
Round7554-------squared error: 3.9131 parameter: [18.398       0.67516011 -1.9587419
4 -0.16263213]
Round7555-------squared error: 3.9131 parameter: [18.398       0.67515944 -1.9587425
4 -0.16263202]
Round7556-------squared error: 3.9131 parameter: [18.398       0.67515877 -1.9587431
5 -0.16263192]
Round7557-------squared error: 3.9131 parameter: [18.398       0.6751581  -1.9587437
6 -0.16263182]
Round7558-------squared error: 3.9131 parameter: [18.398       0.67515743 -1.9587443
6 -0.16263172]
Round7559-------squared error: 3.9131 parameter: [18.398       0.67515677 -1.9587449
7 -0.16263161]
Round7560-------squared error: 3.9131 parameter: [18.398       0.6751561  -1.9587455
7 -0.16263151]
Round7561-------squared error: 3.9131 parameter: [18.398       0.67515543 -1.9587461
7 -0.16263141]
Round7562-------squared error: 3.9131 parameter: [18.398       0.67515477 -1.9587467
8 -0.16263131]
Round7563-------squared error: 3.9131 parameter: [18.398       0.6751541  -1.9587473
8 -0.16263121]
Round7564-------squared error: 3.9131 parameter: [18.398       0.67515344 -1.9587479
8 -0.16263111]
Round7565-------squared error: 3.9131 parameter: [18.398       0.67515277 -1.9587485
8 -0.162631  ]
Round7566-------squared error: 3.9131 parameter: [18.398       0.67515211 -1.9587491
8 -0.1626309 ]
Round7567-------squared error: 3.9131 parameter: [18.398       0.67515145 -1.9587497
8 -0.1626308 ]
Round7568-------squared error: 3.9131 parameter: [18.398       0.67515079 -1.9587503
8 -0.1626307 ]
Round7569-------squared error: 3.9131 parameter: [18.398       0.67515012 -1.9587509
8 -0.1626306 ]
Round7570-------squared error: 3.9131 parameter: [18.398       0.67514946 -1.9587515
8 -0.1626305 ]
Round7571-------squared error: 3.9131 parameter: [18.398       0.6751488  -1.9587521
8 -0.1626304 ]
Round7572-------squared error: 3.9131 parameter: [18.398       0.67514814 -1.9587527
7 -0.1626303 ]
Round7573-------squared error: 3.9131 parameter: [18.398       0.67514749 -1.9587533
7 -0.1626302 ]
Round7574-------squared error: 3.9131 parameter: [18.398       0.67514683 -1.9587539
6 -0.1626301 ]
Round7575-------squared error: 3.9131 parameter: [18.398       0.67514617 -1.9587545
6 -0.16263   ]
Round7576-------squared error: 3.9131 parameter: [18.398       0.67514551 -1.9587551
5 -0.1626299 ]
Round7577-------squared error: 3.9131 parameter: [18.398       0.67514486 -1.9587557
5 -0.16262979]
Round7578-------squared error: 3.9131 parameter: [18.398       0.6751442  -1.9587563
4 -0.16262969]
Round7579-------squared error: 3.9131 parameter: [18.398       0.67514355 -1.9587569
4 -0.16262959]
Round7580-------squared error: 3.9131 parameter: [18.398       0.67514289 -1.9587575
3 -0.16262949]
Round7581-------squared error: 3.9131 parameter: [18.398       0.67514224 -1.9587581
2 -0.16262939]
Round7582-------squared error: 3.9131 parameter: [18.398       0.67514158 -1.9587587
1 -0.16262929]
Round7583-------squared error: 3.9131 parameter: [18.398       0.67514093 -1.9587593
-0.1626292 ]
Round7584-------squared error: 3.9131 parameter: [18.398       0.67514028 -1.9587598
9 -0.1626291 ]
```

```
Round7585-------squared error: 3.9131 parameter: [18.398       0.67513963 -1.9587604
8 -0.162629  ]
Round7586-------squared error: 3.9131 parameter: [18.398       0.67513898 -1.9587610
7 -0.1626289 ]
Round7587-------squared error: 3.9131 parameter: [18.398       0.67513833 -1.9587616
6 -0.1626288 ]
Round7588-------squared error: 3.9131 parameter: [18.398       0.67513768 -1.9587622
5 -0.1626287 ]
Round7589-------squared error: 3.9131 parameter: [18.398       0.67513703 -1.9587628
3 -0.1626286 ]
Round7590-------squared error: 3.9131 parameter: [18.398       0.67513638 -1.9587634
2 -0.1626285 ]
Round7591-------squared error: 3.9131 parameter: [18.398       0.67513573 -1.9587640
1 -0.1626284 ]
Round7592-------squared error: 3.9131 parameter: [18.398       0.67513509 -1.9587645
9 -0.1626283 ]
Round7593-------squared error: 3.9131 parameter: [18.398       0.67513444 -1.9587651
8 -0.1626282 ]
Round7594-------squared error: 3.9131 parameter: [18.398       0.67513379 -1.9587657
6 -0.16262811]
Round7595-------squared error: 3.9131 parameter: [18.398       0.67513315 -1.9587663
5 -0.16262801]
Round7596-------squared error: 3.9131 parameter: [18.398       0.67513251 -1.9587669
3 -0.16262791]
Round7597-------squared error: 3.9131 parameter: [18.398       0.67513186 -1.9587675
1 -0.16262781]
Round7598-------squared error: 3.9131 parameter: [18.398       0.67513122 -1.9587681
-0.16262771]
Round7599-------squared error: 3.9131 parameter: [18.398       0.67513058 -1.9587686
8 -0.16262761]
Round7600-------squared error: 3.9131 parameter: [18.398       0.67512993 -1.9587692
6 -0.16262752]
Round7601-------squared error: 3.9131 parameter: [18.398       0.67512929 -1.9587698
4 -0.16262742]
Round7602-------squared error: 3.9131 parameter: [18.398       0.67512865 -1.9587704
2 -0.16262732]
Round7603-------squared error: 3.9131 parameter: [18.398       0.67512801 -1.958771
-0.16262722]
Round7604-------squared error: 3.9131 parameter: [18.398       0.67512737 -1.9587715
8 -0.16262712]
Round7605-------squared error: 3.9131 parameter: [18.398       0.67512673 -1.9587721
6 -0.16262703]
Round7606-------squared error: 3.9131 parameter: [18.398       0.6751261  -1.9587727
3 -0.16262693]
Round7607-------squared error: 3.9131 parameter: [18.398       0.67512546 -1.9587733
1 -0.16262683]
Round7608-------squared error: 3.9131 parameter: [18.398       0.67512482 -1.9587738
9 -0.16262673]
Round7609-------squared error: 3.9131 parameter: [18.398       0.67512418 -1.9587744
6 -0.16262664]
Round7610-------squared error: 3.9131 parameter: [18.398       0.67512355 -1.9587750
4 -0.16262654]
Round7611-------squared error: 3.9131 parameter: [18.398       0.67512291 -1.9587756
1 -0.16262644]
Round7612-------squared error: 3.9131 parameter: [18.398       0.67512228 -1.9587761
9 -0.16262635]
Round7613-------squared error: 3.9131 parameter: [18.398       0.67512164 -1.9587767
6 -0.16262625]
Round7614-------squared error: 3.9131 parameter: [18.398       0.67512101 -1.9587773
4 -0.16262615]
Round7615-------squared error: 3.9131 parameter: [18.398       0.67512038 -1.9587779
1 -0.16262606]
Round7616-------squared error: 3.9131 parameter: [18.398       0.67511975 -1.9587784
8 -0.16262596]
```

```
Round7617-------squared error: 3.9131 parameter: [18.398       0.67511912 -1.9587790
5 -0.16262586]
Round7618-------squared error: 3.9131 parameter: [18.398       0.67511848 -1.9587796
2 -0.16262577]
Round7619-------squared error: 3.9131 parameter: [18.398       0.67511785 -1.9587801
9 -0.16262567]
Round7620-------squared error: 3.9131 parameter: [18.398       0.67511722 -1.9587807
6 -0.16262557]
Round7621-------squared error: 3.9131 parameter: [18.398       0.6751166  -1.9587813
3 -0.16262548]
Round7622-------squared error: 3.9131 parameter: [18.398       0.67511597 -1.9587819
-0.16262538]
Round7623-------squared error: 3.9131 parameter: [18.398       0.67511534 -1.9587824
7 -0.16262529]
Round7624-------squared error: 3.9131 parameter: [18.398       0.67511471 -1.9587830
4 -0.16262519]
Round7625-------squared error: 3.9131 parameter: [18.398       0.67511408 -1.9587836
1 -0.16262509]
Round7626-------squared error: 3.9131 parameter: [18.398       0.67511346 -1.9587841
7 -0.162625  ]
Round7627-------squared error: 3.9131 parameter: [18.398       0.67511283 -1.9587847
4 -0.1626249 ]
Round7628-------squared error: 3.9131 parameter: [18.398       0.67511221 -1.9587853
1 -0.16262481]
Round7629-------squared error: 3.9131 parameter: [18.398       0.67511158 -1.9587858
7 -0.16262471]
Round7630-------squared error: 3.9131 parameter: [18.398       0.67511096 -1.9587864
3 -0.16262462]
Round7631-------squared error: 3.9131 parameter: [18.398       0.67511034 -1.958787
-0.16262452]
Round7632-------squared error: 3.9131 parameter: [18.398       0.67510972 -1.9587875
6 -0.16262443]
Round7633-------squared error: 3.9131 parameter: [18.398       0.67510909 -1.9587881
3 -0.16262433]
Round7634-------squared error: 3.9131 parameter: [18.398       0.67510847 -1.9587886
9 -0.16262424]
Round7635-------squared error: 3.9131 parameter: [18.398       0.67510785 -1.9587892
5 -0.16262414]
Round7636-------squared error: 3.9131 parameter: [18.398       0.67510723 -1.9587898
1 -0.16262405]
Round7637-------squared error: 3.9131 parameter: [18.398       0.67510661 -1.9587903
7 -0.16262395]
Round7638-------squared error: 3.9131 parameter: [18.398       0.67510599 -1.9587909
3 -0.16262386]
Round7639-------squared error: 3.9131 parameter: [18.398       0.67510537 -1.9587914
9 -0.16262376]
Round7640-------squared error: 3.9131 parameter: [18.398       0.67510476 -1.9587920
5 -0.16262367]
Round7641-------squared error: 3.9131 parameter: [18.398       0.67510414 -1.9587926
1 -0.16262358]
Round7642-------squared error: 3.9131 parameter: [18.398       0.67510352 -1.9587931
7 -0.16262348]
Round7643-------squared error: 3.9131 parameter: [18.398       0.67510291 -1.9587937
3 -0.16262339]
Round7644-------squared error: 3.9131 parameter: [18.398       0.67510229 -1.9587942
8 -0.16262329]
Round7645-------squared error: 3.9131 parameter: [18.398       0.67510168 -1.9587948
4 -0.1626232 ]
Round7646-------squared error: 3.9131 parameter: [18.398       0.67510106 -1.9587953
9 -0.16262311]
Round7647-------squared error: 3.9131 parameter: [18.398       0.67510045 -1.9587959
5 -0.16262301]
Round7648-------squared error: 3.9131 parameter: [18.398       0.67509984 -1.9587965
1 -0.16262292]
```

```
Round7649-------squared error: 3.9131 parameter: [18.398       0.67509922 -1.9587970
6 -0.16262282]
Round7650-------squared error: 3.9131 parameter: [18.398       0.67509861 -1.9587976
1 -0.16262273]
Round7651-------squared error: 3.9131 parameter: [18.398       0.675098   -1.9587981
7 -0.16262264]
Round7652-------squared error: 3.9131 parameter: [18.398       0.67509739 -1.9587987
2 -0.16262254]
Round7653-------squared error: 3.9131 parameter: [18.398       0.67509678 -1.9587992
7 -0.16262245]
Round7654-------squared error: 3.9131 parameter: [18.398       0.67509617 -1.9587998
2 -0.16262236]
Round7655-------squared error: 3.9131 parameter: [18.398       0.67509556 -1.9588003
7 -0.16262227]
Round7656-------squared error: 3.9131 parameter: [18.398       0.67509495 -1.9588009
2 -0.16262217]
Round7657-------squared error: 3.9131 parameter: [18.398       0.67509435 -1.9588014
8 -0.16262208]
Round7658-------squared error: 3.9131 parameter: [18.398       0.67509374 -1.9588020
2 -0.16262199]
Round7659-------squared error: 3.9131 parameter: [18.398       0.67509313 -1.9588025
7 -0.16262189]
Round7660-------squared error: 3.9131 parameter: [18.398       0.67509253 -1.9588031
2 -0.1626218 ]
Round7661-------squared error: 3.9131 parameter: [18.398       0.67509192 -1.9588036
7 -0.16262171]
Round7662-------squared error: 3.9131 parameter: [18.398       0.67509132 -1.9588042
2 -0.16262162]
Round7663-------squared error: 3.9131 parameter: [18.398       0.67509071 -1.9588047
6 -0.16262152]
Round7664-------squared error: 3.9131 parameter: [18.398       0.67509011 -1.9588053
1 -0.16262143]
Round7665-------squared error: 3.9131 parameter: [18.398       0.67508951 -1.9588058
6 -0.16262134]
Round7666-------squared error: 3.9131 parameter: [18.398       0.6750889  -1.9588064
-0.16262125]
Round7667-------squared error: 3.9131 parameter: [18.398       0.6750883  -1.9588069
5 -0.16262116]
Round7668-------squared error: 3.9131 parameter: [18.398       0.6750877  -1.9588074
9 -0.16262106]
Round7669-------squared error: 3.9131 parameter: [18.398       0.6750871  -1.9588080
3 -0.16262097]
Round7670-------squared error: 3.9131 parameter: [18.398       0.6750865  -1.9588085
8 -0.16262088]
Round7671-------squared error: 3.9131 parameter: [18.398       0.6750859  -1.9588091
2 -0.16262079]
Round7672-------squared error: 3.9131 parameter: [18.398       0.6750853  -1.9588096
6 -0.1626207 ]
Round7673-------squared error: 3.9131 parameter: [18.398       0.6750847  -1.9588102
-0.16262061]
Round7674-------squared error: 3.9131 parameter: [18.398       0.67508411 -1.9588107
5 -0.16262052]
Round7675-------squared error: 3.9131 parameter: [18.398       0.67508351 -1.9588112
9 -0.16262042]
Round7676-------squared error: 3.9131 parameter: [18.398       0.67508291 -1.9588118
3 -0.16262033]
Round7677-------squared error: 3.9131 parameter: [18.398       0.67508232 -1.9588123
7 -0.16262024]
Round7678-------squared error: 3.9131 parameter: [18.398       0.67508172 -1.9588129
1 -0.16262015]
Round7679-------squared error: 3.9131 parameter: [18.398       0.67508113 -1.9588134
4 -0.16262006]
Round7680-------squared error: 3.9131 parameter: [18.398       0.67508053 -1.9588139
8 -0.16261997]
```

```
Round7681-------squared error: 3.9131 parameter: [18.398       0.67507994 -1.9588145
2 -0.16261988]
Round7682-------squared error: 3.9131 parameter: [18.398       0.67507935 -1.9588150
6 -0.16261979]
Round7683-------squared error: 3.9131 parameter: [18.398       0.67507875 -1.9588155
9 -0.1626197 ]
Round7684-------squared error: 3.9131 parameter: [18.398       0.67507816 -1.9588161
3 -0.16261961]
Round7685-------squared error: 3.9131 parameter: [18.398       0.67507757 -1.9588166
6 -0.16261952]
Round7686-------squared error: 3.9131 parameter: [18.398       0.67507698 -1.9588172
-0.16261943]
Round7687-------squared error: 3.9131 parameter: [18.398       0.67507639 -1.9588177
3 -0.16261934]
Round7688-------squared error: 3.9131 parameter: [18.398       0.6750758  -1.9588182
7 -0.16261925]
Round7689-------squared error: 3.9131 parameter: [18.398       0.67507521 -1.9588188
-0.16261916]
Round7690-------squared error: 3.9131 parameter: [18.398       0.67507462 -1.9588193
3 -0.16261907]
Round7691-------squared error: 3.9131 parameter: [18.398       0.67507403 -1.9588198
7 -0.16261898]
Round7692-------squared error: 3.9131 parameter: [18.398       0.67507344 -1.9588204
-0.16261889]
Round7693-------squared error: 3.9131 parameter: [18.398       0.67507286 -1.9588209
3 -0.1626188 ]
Round7694-------squared error: 3.9131 parameter: [18.398       0.67507227 -1.9588214
6 -0.16261871]
Round7695-------squared error: 3.9131 parameter: [18.398       0.67507169 -1.9588219
9 -0.16261862]
Round7696-------squared error: 3.9131 parameter: [18.398       0.6750711  -1.9588225
2 -0.16261853]
Round7697-------squared error: 3.9131 parameter: [18.398       0.67507052 -1.9588230
5 -0.16261844]
Round7698-------squared error: 3.9131 parameter: [18.398       0.67506993 -1.9588235
8 -0.16261835]
Round7699-------squared error: 3.9131 parameter: [18.398       0.67506935 -1.9588241
1 -0.16261826]
Round7700-------squared error: 3.9131 parameter: [18.398       0.67506877 -1.9588246
3 -0.16261817]
Round7701-------squared error: 3.9131 parameter: [18.398       0.67506818 -1.9588251
6 -0.16261808]
Round7702-------squared error: 3.9131 parameter: [18.398       0.6750676  -1.9588256
9 -0.16261799]
Round7703-------squared error: 3.9131 parameter: [18.398       0.67506702 -1.9588262
1 -0.1626179 ]
Round7704-------squared error: 3.9131 parameter: [18.398       0.67506644 -1.9588267
4 -0.16261782]
Round7705-------squared error: 3.9131 parameter: [18.398       0.67506586 -1.9588272
7 -0.16261773]
Round7706-------squared error: 3.9131 parameter: [18.398       0.67506528 -1.9588277
9 -0.16261764]
Round7707-------squared error: 3.9131 parameter: [18.398       0.6750647  -1.9588283
1 -0.16261755]
Round7708-------squared error: 3.9131 parameter: [18.398       0.67506412 -1.9588288
4 -0.16261746]
Round7709-------squared error: 3.9131 parameter: [18.398       0.67506354 -1.9588293
6 -0.16261737]
Round7710-------squared error: 3.9131 parameter: [18.398       0.67506297 -1.9588298
8 -0.16261729]
Round7711-------squared error: 3.9131 parameter: [18.398       0.67506239 -1.9588304
1 -0.1626172 ]
Round7712-------squared error: 3.9131 parameter: [18.398       0.67506181 -1.9588309
3 -0.16261711]
```

```
Round7713-------squared error: 3.9131 parameter: [18.398       0.67506124 -1.9588314
5 -0.16261702]
Round7714-------squared error: 3.9131 parameter: [18.398       0.67506066 -1.9588319
7 -0.16261693]
Round7715-------squared error: 3.9131 parameter: [18.398       0.67506009 -1.9588324
9 -0.16261685]
Round7716-------squared error: 3.9131 parameter: [18.398       0.67505951 -1.9588330
1 -0.16261676]
Round7717-------squared error: 3.9131 parameter: [18.398       0.67505894 -1.9588335
3 -0.16261667]
Round7718-------squared error: 3.9131 parameter: [18.398       0.67505837 -1.9588340
5 -0.16261658]
Round7719-------squared error: 3.9131 parameter: [18.398       0.67505779 -1.9588345
7 -0.1626165 ]
Round7720-------squared error: 3.9131 parameter: [18.398       0.67505722 -1.9588350
8 -0.16261641]
Round7721-------squared error: 3.9131 parameter: [18.398       0.67505665 -1.9588356
-0.16261632]
Round7722-------squared error: 3.9131 parameter: [18.398       0.67505608 -1.9588361
2 -0.16261623]
Round7723-------squared error: 3.9131 parameter: [18.398       0.67505551 -1.9588366
3 -0.16261615]
Round7724-------squared error: 3.9131 parameter: [18.398       0.67505494 -1.9588371
5 -0.16261606]
Round7725-------squared error: 3.9131 parameter: [18.398       0.67505437 -1.9588376
7 -0.16261597]
Round7726-------squared error: 3.9131 parameter: [18.398       0.6750538  -1.9588381
8 -0.16261589]
Round7727-------squared error: 3.9131 parameter: [18.398       0.67505324 -1.9588386
9 -0.1626158 ]
Round7728-------squared error: 3.9131 parameter: [18.398       0.67505267 -1.9588392
1 -0.16261571]
Round7729-------squared error: 3.9131 parameter: [18.398       0.6750521  -1.9588397
2 -0.16261563]
Round7730-------squared error: 3.9131 parameter: [18.398       0.67505153 -1.9588402
3 -0.16261554]
Round7731-------squared error: 3.9131 parameter: [18.398       0.67505097 -1.9588407
5 -0.16261545]
Round7732-------squared error: 3.9131 parameter: [18.398       0.6750504  -1.9588412
6 -0.16261537]
Round7733-------squared error: 3.9131 parameter: [18.398       0.67504984 -1.9588417
7 -0.16261528]
Round7734-------squared error: 3.9131 parameter: [18.398       0.67504927 -1.9588422
8 -0.16261519]
Round7735-------squared error: 3.9131 parameter: [18.398       0.67504871 -1.9588427
9 -0.16261511]
Round7736-------squared error: 3.9131 parameter: [18.398       0.67504815 -1.9588433
-0.16261502]
Round7737-------squared error: 3.9131 parameter: [18.398       0.67504759 -1.9588438
1 -0.16261494]
Round7738-------squared error: 3.9131 parameter: [18.398       0.67504702 -1.9588443
2 -0.16261485]
Round7739-------squared error: 3.9131 parameter: [18.398       0.67504646 -1.9588448
3 -0.16261476]
Round7740-------squared error: 3.9131 parameter: [18.398       0.6750459  -1.9588453
3 -0.16261468]
Round7741-------squared error: 3.9131 parameter: [18.398       0.67504534 -1.9588458
4 -0.16261459]
Round7742-------squared error: 3.9131 parameter: [18.398       0.67504478 -1.9588463
5 -0.16261451]
Round7743-------squared error: 3.9131 parameter: [18.398       0.67504422 -1.9588468
5 -0.16261442]
Round7744-------squared error: 3.9131 parameter: [18.398       0.67504366 -1.9588473
6 -0.16261434]
```

```
Round7745-------squared error: 3.9131 parameter: [18.398       0.6750431  -1.9588478
7 -0.16261425]
Round7746-------squared error: 3.9131 parameter: [18.398       0.67504255 -1.9588483
7 -0.16261417]
Round7747-------squared error: 3.9131 parameter: [18.398       0.67504199 -1.9588488
8 -0.16261408]
Round7748-------squared error: 3.9131 parameter: [18.398       0.67504143 -1.9588493
8 -0.162614  ]
Round7749-------squared error: 3.9131 parameter: [18.398       0.67504088 -1.9588498
8 -0.16261391]
Round7750-------squared error: 3.9131 parameter: [18.398       0.67504032 -1.9588503
9 -0.16261383]
Round7751-------squared error: 3.9131 parameter: [18.398       0.67503977 -1.9588508
9 -0.16261374]
Round7752-------squared error: 3.9131 parameter: [18.398       0.67503921 -1.9588513
9 -0.16261366]
Round7753-------squared error: 3.9131 parameter: [18.398       0.67503866 -1.9588518
9 -0.16261357]
Round7754-------squared error: 3.9131 parameter: [18.398       0.6750381  -1.9588523
9 -0.16261349]
Round7755-------squared error: 3.9131 parameter: [18.398       0.67503755 -1.9588528
9 -0.1626134 ]
Round7756-------squared error: 3.9131 parameter: [18.398       0.675037   -1.9588533
9 -0.16261332]
Round7757-------squared error: 3.9131 parameter: [18.398       0.67503645 -1.9588538
9 -0.16261323]
Round7758-------squared error: 3.9131 parameter: [18.398       0.6750359  -1.9588543
9 -0.16261315]
Round7759-------squared error: 3.9131 parameter: [18.398       0.67503535 -1.9588548
9 -0.16261307]
Round7760-------squared error: 3.9131 parameter: [18.398       0.67503479 -1.9588553
9 -0.16261298]
Round7761-------squared error: 3.9131 parameter: [18.398       0.67503425 -1.9588558
9 -0.1626129 ]
Round7762-------squared error: 3.9131 parameter: [18.398       0.6750337  -1.9588563
8 -0.16261281]
Round7763-------squared error: 3.9131 parameter: [18.398       0.67503315 -1.9588568
8 -0.16261273]
Round7764-------squared error: 3.9131 parameter: [18.398       0.6750326  -1.9588573
8 -0.16261265]
Round7765-------squared error: 3.9131 parameter: [18.398       0.67503205 -1.9588578
7 -0.16261256]
Round7766-------squared error: 3.9131 parameter: [18.398       0.6750315  -1.9588583
7 -0.16261248]
Round7767-------squared error: 3.9131 parameter: [18.398       0.67503096 -1.9588588
6 -0.1626124 ]
Round7768-------squared error: 3.9131 parameter: [18.398       0.67503041 -1.9588593
6 -0.16261231]
Round7769-------squared error: 3.9131 parameter: [18.398       0.67502987 -1.9588598
5 -0.16261223]
Round7770-------squared error: 3.9131 parameter: [18.398       0.67502932 -1.9588603
4 -0.16261215]
Round7771-------squared error: 3.9131 parameter: [18.398       0.67502878 -1.9588608
4 -0.16261206]
Round7772-------squared error: 3.9131 parameter: [18.398       0.67502823 -1.9588613
3 -0.16261198]
Round7773-------squared error: 3.9131 parameter: [18.398       0.67502769 -1.9588618
2 -0.1626119 ]
Round7774-------squared error: 3.9131 parameter: [18.398       0.67502715 -1.9588623
1 -0.16261181]
Round7775-------squared error: 3.9131 parameter: [18.398       0.6750266  -1.9588628
-0.16261173]
Round7776-------squared error: 3.9131 parameter: [18.398       0.67502606 -1.9588632
9 -0.16261165]
```

```
Round7777-------squared error: 3.9131 parameter: [18.398       0.67502552 -1.9588637
8 -0.16261157]
Round7778-------squared error: 3.9131 parameter: [18.398       0.67502498 -1.9588642
7 -0.16261148]
Round7779-------squared error: 3.9131 parameter: [18.398       0.67502444 -1.9588647
6 -0.1626114 ]
Round7780-------squared error: 3.9131 parameter: [18.398       0.6750239  -1.9588652
5 -0.16261132]
Round7781-------squared error: 3.9131 parameter: [18.398       0.67502336 -1.9588657
4 -0.16261124]
Round7782-------squared error: 3.9131 parameter: [18.398       0.67502282 -1.9588662
3 -0.16261115]
Round7783-------squared error: 3.9131 parameter: [18.398       0.67502228 -1.9588667
1 -0.16261107]
Round7784-------squared error: 3.9131 parameter: [18.398       0.67502175 -1.9588672
-0.16261099]
Round7785-------squared error: 3.9131 parameter: [18.398       0.67502121 -1.9588676
9 -0.16261091]
Round7786-------squared error: 3.9131 parameter: [18.398       0.67502067 -1.9588681
7 -0.16261083]
Round7787-------squared error: 3.9131 parameter: [18.398       0.67502014 -1.9588686
6 -0.16261074]
Round7788-------squared error: 3.9131 parameter: [18.398       0.6750196  -1.9588691
4 -0.16261066]
Round7789-------squared error: 3.9131 parameter: [18.398       0.67501907 -1.9588696
3 -0.16261058]
Round7790-------squared error: 3.9131 parameter: [18.398       0.67501853 -1.9588701
1 -0.1626105 ]
Round7791-------squared error: 3.9131 parameter: [18.398       0.675018   -1.9588705
9 -0.16261042]
Round7792-------squared error: 3.9131 parameter: [18.398       0.67501746 -1.9588710
8 -0.16261034]
Round7793-------squared error: 3.9131 parameter: [18.398       0.67501693 -1.9588715
6 -0.16261025]
Round7794-------squared error: 3.9131 parameter: [18.398       0.6750164  -1.9588720
4 -0.16261017]
Round7795-------squared error: 3.9131 parameter: [18.398       0.67501587 -1.9588725
2 -0.16261009]
Round7796-------squared error: 3.9131 parameter: [18.398       0.67501534 -1.9588730
1 -0.16261001]
Round7797-------squared error: 3.9131 parameter: [18.398       0.6750148  -1.9588734
9 -0.16260993]
Round7798-------squared error: 3.9131 parameter: [18.398       0.67501427 -1.9588739
7 -0.16260985]
Round7799-------squared error: 3.9131 parameter: [18.398       0.67501374 -1.9588744
5 -0.16260977]
Round7800-------squared error: 3.9131 parameter: [18.398       0.67501321 -1.9588749
3 -0.16260969]
Round7801-------squared error: 3.9131 parameter: [18.398       0.67501269 -1.9588754
-0.16260961]
Round7802-------squared error: 3.9131 parameter: [18.398       0.67501216 -1.9588758
8 -0.16260952]
Round7803-------squared error: 3.9131 parameter: [18.398       0.67501163 -1.9588763
6 -0.16260944]
Round7804-------squared error: 3.9131 parameter: [18.398       0.6750111  -1.9588768
4 -0.16260936]
Round7805-------squared error: 3.9131 parameter: [18.398       0.67501058 -1.9588773
1 -0.16260928]
Round7806-------squared error: 3.9131 parameter: [18.398       0.67501005 -1.9588777
9 -0.1626092 ]
Round7807-------squared error: 3.9131 parameter: [18.398       0.67500952 -1.9588782
7 -0.16260912]
Round7808-------squared error: 3.9131 parameter: [18.398       0.675009   -1.9588787
4 -0.16260904]
```

```
Round7809-------squared error: 3.9131 parameter: [18.398       0.67500847 -1.9588792
2 -0.16260896]
Round7810-------squared error: 3.9131 parameter: [18.398       0.67500795 -1.9588796
9 -0.16260888]
Round7811-------squared error: 3.9131 parameter: [18.398       0.67500742 -1.9588801
7 -0.1626088 ]
Round7812-------squared error: 3.9131 parameter: [18.398       0.6750069  -1.9588806
4 -0.16260872]
Round7813-------squared error: 3.9131 parameter: [18.398       0.67500638 -1.9588811
1 -0.16260864]
Round7814-------squared error: 3.9131 parameter: [18.398       0.67500586 -1.9588815
9 -0.16260856]
Round7815-------squared error: 3.9131 parameter: [18.398       0.67500533 -1.9588820
6 -0.16260848]
Round7816-------squared error: 3.9131 parameter: [18.398       0.67500481 -1.9588825
3 -0.1626084 ]
Round7817-------squared error: 3.9131 parameter: [18.398       0.67500429 -1.958883
-0.16260832]
Round7818-------squared error: 3.9131 parameter: [18.398       0.67500377 -1.9588834
7 -0.16260824]
Round7819-------squared error: 3.9131 parameter: [18.398       0.67500325 -1.9588839
4 -0.16260816]
Round7820-------squared error: 3.9131 parameter: [18.398       0.67500273 -1.9588844
1 -0.16260808]
Round7821-------squared error: 3.9131 parameter: [18.398       0.67500221 -1.9588848
8 -0.16260801]
Round7822-------squared error: 3.9131 parameter: [18.398       0.6750017  -1.9588853
5 -0.16260793]
Round7823-------squared error: 3.9131 parameter: [18.398       0.67500118 -1.9588858
2 -0.16260785]
Round7824-------squared error: 3.9131 parameter: [18.398       0.67500066 -1.9588862
9 -0.16260777]
Round7825-------squared error: 3.9131 parameter: [18.398       0.67500014 -1.9588867
6 -0.16260769]
Round7826-------squared error: 3.9131 parameter: [18.398       0.67499963 -1.9588872
3 -0.16260761]
Round7827-------squared error: 3.9131 parameter: [18.398       0.67499911 -1.9588876
9 -0.16260753]
Round7828-------squared error: 3.9131 parameter: [18.398       0.6749986  -1.9588881
6 -0.16260745]
Round7829-------squared error: 3.9131 parameter: [18.398       0.67499808 -1.9588886
3 -0.16260737]
Round7830-------squared error: 3.9131 parameter: [18.398       0.67499757 -1.9588890
9 -0.1626073 ]
Round7831-------squared error: 3.9131 parameter: [18.398       0.67499705 -1.9588895
6 -0.16260722]
Round7832-------squared error: 3.9131 parameter: [18.398       0.67499654 -1.9588900
2 -0.16260714]
Round7833-------squared error: 3.9131 parameter: [18.398       0.67499603 -1.9588904
9 -0.16260706]
Round7834-------squared error: 3.9131 parameter: [18.398       0.67499551 -1.9588909
5 -0.16260698]
Round7835-------squared error: 3.9131 parameter: [18.398       0.674995   -1.9588914
1 -0.1626069 ]
Round7836-------squared error: 3.9131 parameter: [18.398       0.67499449 -1.9588918
8 -0.16260683]
Round7837-------squared error: 3.9131 parameter: [18.398       0.67499398 -1.9588923
4 -0.16260675]
Round7838-------squared error: 3.9131 parameter: [18.398       0.67499347 -1.9588928
-0.16260667]
Round7839-------squared error: 3.9131 parameter: [18.398       0.67499296 -1.9588932
6 -0.16260659]
Round7840-------squared error: 3.9131 parameter: [18.398       0.67499245 -1.9588937
2 -0.16260651]
```

```
Round7841-------squared error: 3.9131 parameter: [18.398       0.67499194 -1.9588941
8 -0.16260644]
Round7842-------squared error: 3.9131 parameter: [18.398       0.67499143 -1.9588946
4 -0.16260636]
Round7843-------squared error: 3.9131 parameter: [18.398       0.67499092 -1.9588951
-0.16260628]
Round7844-------squared error: 3.9131 parameter: [18.398       0.67499042 -1.9588955
6 -0.1626062 ]
Round7845-------squared error: 3.9131 parameter: [18.398       0.67498991 -1.9588960
2 -0.16260613]
Round7846-------squared error: 3.9131 parameter: [18.398       0.6749894  -1.9588964
8 -0.16260605]
Round7847-------squared error: 3.9131 parameter: [18.398       0.6749889  -1.9588969
4 -0.16260597]
Round7848-------squared error: 3.9131 parameter: [18.398       0.67498839 -1.9588974
-0.16260589]
Round7849-------squared error: 3.9131 parameter: [18.398       0.67498789 -1.9588978
5 -0.16260582]
Round7850-------squared error: 3.9131 parameter: [18.398       0.67498738 -1.9588983
1 -0.16260574]
Round7851-------squared error: 3.9131 parameter: [18.398       0.67498688 -1.9588987
7 -0.16260566]
Round7852-------squared error: 3.9131 parameter: [18.398       0.67498638 -1.9588992
2 -0.16260559]
Round7853-------squared error: 3.9131 parameter: [18.398       0.67498587 -1.9588996
8 -0.16260551]
Round7854-------squared error: 3.9131 parameter: [18.398       0.67498537 -1.9589001
3 -0.16260543]
Round7855-------squared error: 3.9131 parameter: [18.398       0.67498487 -1.9589005
9 -0.16260536]
Round7856-------squared error: 3.9131 parameter: [18.398       0.67498437 -1.9589010
4 -0.16260528]
Round7857-------squared error: 3.9131 parameter: [18.398       0.67498386 -1.9589015
-0.1626052 ]
Round7858-------squared error: 3.9131 parameter: [18.398       0.67498336 -1.9589019
5 -0.16260513]
Round7859-------squared error: 3.9131 parameter: [18.398       0.67498286 -1.9589024
-0.16260505]
Round7860-------squared error: 3.9131 parameter: [18.398       0.67498236 -1.9589028
5 -0.16260497]
Round7861-------squared error: 3.9131 parameter: [18.398       0.67498187 -1.9589033
1 -0.1626049 ]
Round7862-------squared error: 3.9131 parameter: [18.398       0.67498137 -1.9589037
6 -0.16260482]
Round7863-------squared error: 3.9131 parameter: [18.398       0.67498087 -1.9589042
1 -0.16260475]
Round7864-------squared error: 3.9131 parameter: [18.398       0.67498037 -1.9589046
6 -0.16260467]
Round7865-------squared error: 3.9131 parameter: [18.398       0.67497987 -1.9589051
1 -0.16260459]
Round7866-------squared error: 3.9131 parameter: [18.398       0.67497938 -1.9589055
6 -0.16260452]
Round7867-------squared error: 3.9131 parameter: [18.398       0.67497888 -1.9589060
1 -0.16260444]
Round7868-------squared error: 3.9131 parameter: [18.398       0.67497838 -1.9589064
6 -0.16260437]
Round7869-------squared error: 3.9131 parameter: [18.398       0.67497789 -1.9589069
1 -0.16260429]
Round7870-------squared error: 3.9131 parameter: [18.398       0.67497739 -1.9589073
5 -0.16260421]
Round7871-------squared error: 3.9131 parameter: [18.398       0.6749769  -1.9589078
-0.16260414]
Round7872-------squared error: 3.9131 parameter: [18.398       0.67497641 -1.9589082
5 -0.16260406]
```

```
Round7873-------squared error: 3.9131 parameter: [18.398       0.67497591 -1.9589087
-0.16260399]
Round7874-------squared error: 3.9131 parameter: [18.398       0.67497542 -1.9589091
4 -0.16260391]
Round7875-------squared error: 3.9131 parameter: [18.398       0.67497493 -1.9589095
9 -0.16260384]
Round7876-------squared error: 3.9131 parameter: [18.398       0.67497443 -1.9589100
3 -0.16260376]
Round7877-------squared error: 3.9131 parameter: [18.398       0.67497394 -1.9589104
8 -0.16260369]
Round7878-------squared error: 3.9131 parameter: [18.398       0.67497345 -1.9589109
2 -0.16260361]
Round7879-------squared error: 3.9131 parameter: [18.398       0.67497296 -1.9589113
7 -0.16260354]
Round7880-------squared error: 3.9131 parameter: [18.398       0.67497247 -1.9589118
1 -0.16260346]
Round7881-------squared error: 3.9131 parameter: [18.398       0.67497198 -1.9589122
5 -0.16260339]
Round7882-------squared error: 3.9131 parameter: [18.398       0.67497149 -1.9589127
-0.16260331]
Round7883-------squared error: 3.9131 parameter: [18.398       0.674971   -1.9589131
4 -0.16260324]
Round7884-------squared error: 3.9131 parameter: [18.398       0.67497051 -1.9589135
8 -0.16260316]
Round7885-------squared error: 3.9131 parameter: [18.398       0.67497003 -1.9589140
2 -0.16260309]
Round7886-------squared error: 3.9131 parameter: [18.398       0.67496954 -1.9589144
6 -0.16260301]
Round7887-------squared error: 3.9131 parameter: [18.398       0.67496905 -1.9589149
-0.16260294]
Round7888-------squared error: 3.9131 parameter: [18.398       0.67496857 -1.9589153
5 -0.16260287]
Round7889-------squared error: 3.9131 parameter: [18.398       0.67496808 -1.9589157
9 -0.16260279]
Round7890-------squared error: 3.9131 parameter: [18.398       0.6749676  -1.9589162
2 -0.16260272]
Round7891-------squared error: 3.9131 parameter: [18.398       0.67496711 -1.9589166
6 -0.16260264]
Round7892-------squared error: 3.9131 parameter: [18.398       0.67496663 -1.9589171
-0.16260257]
Round7893-------squared error: 3.9131 parameter: [18.398       0.67496614 -1.9589175
4 -0.1626025 ]
Round7894-------squared error: 3.9131 parameter: [18.398       0.67496566 -1.9589179
8 -0.16260242]
Round7895-------squared error: 3.9131 parameter: [18.398       0.67496517 -1.9589184
2 -0.16260235]
Round7896-------squared error: 3.9131 parameter: [18.398       0.67496469 -1.9589188
5 -0.16260227]
Round7897-------squared error: 3.9131 parameter: [18.398       0.67496421 -1.9589192
9 -0.1626022 ]
Round7898-------squared error: 3.9131 parameter: [18.398       0.67496373 -1.9589197
3 -0.16260213]
Round7899-------squared error: 3.9131 parameter: [18.398       0.67496325 -1.9589201
6 -0.16260205]
Round7900-------squared error: 3.9131 parameter: [18.398       0.67496277 -1.9589206
-0.16260198]
Round7901-------squared error: 3.9131 parameter: [18.398       0.67496229 -1.9589210
3 -0.16260191]
Round7902-------squared error: 3.9131 parameter: [18.398       0.67496181 -1.9589214
7 -0.16260183]
Round7903-------squared error: 3.9131 parameter: [18.398       0.67496133 -1.9589219
-0.16260176]
Round7904-------squared error: 3.9131 parameter: [18.398       0.67496085 -1.9589223
3 -0.16260169]
```

```
Round7905-------squared error: 3.9131 parameter: [18.398       0.67496037 -1.9589227
7 -0.16260161]
Round7906-------squared error: 3.9131 parameter: [18.398       0.67495989 -1.9589232
-0.16260154]
Round7907-------squared error: 3.9131 parameter: [18.398       0.67495941 -1.9589236
3 -0.16260147]
Round7908-------squared error: 3.9131 parameter: [18.398       0.67495894 -1.9589240
6 -0.16260139]
Round7909-------squared error: 3.9131 parameter: [18.398       0.67495846 -1.9589245
-0.16260132]
Round7910-------squared error: 3.9131 parameter: [18.398       0.67495798 -1.9589249
3 -0.16260125]
Round7911-------squared error: 3.9131 parameter: [18.398       0.67495751 -1.9589253
6 -0.16260118]
Round7912-------squared error: 3.9131 parameter: [18.398       0.67495703 -1.9589257
9 -0.1626011 ]
Round7913-------squared error: 3.9131 parameter: [18.398       0.67495656 -1.9589262
2 -0.16260103]
Round7914-------squared error: 3.9131 parameter: [18.398       0.67495608 -1.9589266
5 -0.16260096]
Round7915-------squared error: 3.9131 parameter: [18.398       0.67495561 -1.9589270
8 -0.16260089]
Round7916-------squared error: 3.9131 parameter: [18.398       0.67495514 -1.9589275
-0.16260081]
Round7917-------squared error: 3.9131 parameter: [18.398       0.67495466 -1.9589279
3 -0.16260074]
Round7918-------squared error: 3.9131 parameter: [18.398       0.67495419 -1.9589283
6 -0.16260067]
Round7919-------squared error: 3.9131 parameter: [18.398       0.67495372 -1.9589287
9 -0.1626006 ]
Round7920-------squared error: 3.9131 parameter: [18.398       0.67495325 -1.9589292
1 -0.16260053]
Round7921-------squared error: 3.9131 parameter: [18.398       0.67495278 -1.9589296
4 -0.16260045]
Round7922-------squared error: 3.9131 parameter: [18.398       0.6749523  -1.9589300
7 -0.16260038]
Round7923-------squared error: 3.9131 parameter: [18.398       0.67495183 -1.9589304
9 -0.16260031]
Round7924-------squared error: 3.9131 parameter: [18.398       0.67495136 -1.9589309
2 -0.16260024]
Round7925-------squared error: 3.9131 parameter: [18.398       0.6749509  -1.9589313
4 -0.16260017]
Round7926-------squared error: 3.9131 parameter: [18.398       0.67495043 -1.9589317
7 -0.16260009]
Round7927-------squared error: 3.9131 parameter: [18.398       0.67494996 -1.9589321
9 -0.16260002]
Round7928-------squared error: 3.9131 parameter: [18.398       0.67494949 -1.9589326
2 -0.16259995]
Round7929-------squared error: 3.9131 parameter: [18.398       0.67494902 -1.9589330
4 -0.16259988]
Round7930-------squared error: 3.9131 parameter: [18.398       0.67494856 -1.9589334
6 -0.16259981]
Round7931-------squared error: 3.9131 parameter: [18.398       0.67494809 -1.9589338
8 -0.16259974]
Round7932-------squared error: 3.9131 parameter: [18.398       0.67494762 -1.9589343
1 -0.16259967]
Round7933-------squared error: 3.9131 parameter: [18.398       0.67494716 -1.9589347
3 -0.1625996 ]
Round7934-------squared error: 3.9131 parameter: [18.398       0.67494669 -1.9589351
5 -0.16259952]
Round7935-------squared error: 3.9131 parameter: [18.398       0.67494623 -1.9589355
7 -0.16259945]
Round7936-------squared error: 3.9131 parameter: [18.398       0.67494576 -1.9589359
9 -0.16259938]
```

```
Round7937-------squared error: 3.9131 parameter: [18.398       0.6749453  -1.9589364
1 -0.16259931]
Round7938-------squared error: 3.9131 parameter: [18.398       0.67494483 -1.9589368
3 -0.16259924]
Round7939-------squared error: 3.9131 parameter: [18.398       0.67494437 -1.9589372
5 -0.16259917]
Round7940-------squared error: 3.9131 parameter: [18.398       0.67494391 -1.9589376
7 -0.1625991 ]
Round7941-------squared error: 3.9131 parameter: [18.398       0.67494345 -1.9589380
9 -0.16259903]
Round7942-------squared error: 3.9131 parameter: [18.398       0.67494299 -1.9589385
-0.16259896]
Round7943-------squared error: 3.9131 parameter: [18.398       0.67494252 -1.9589389
2 -0.16259889]
Round7944-------squared error: 3.9131 parameter: [18.398       0.67494206 -1.9589393
4 -0.16259882]
Round7945-------squared error: 3.9131 parameter: [18.398       0.6749416  -1.9589397
6 -0.16259875]
Round7946-------squared error: 3.9131 parameter: [18.398       0.67494114 -1.9589401
7 -0.16259868]
Round7947-------squared error: 3.9131 parameter: [18.398       0.67494068 -1.9589405
9 -0.16259861]
Round7948-------squared error: 3.9131 parameter: [18.398       0.67494022 -1.958941
-0.16259854]
Round7949-------squared error: 3.9131 parameter: [18.398       0.67493977 -1.9589414
2 -0.16259847]
Round7950-------squared error: 3.9131 parameter: [18.398       0.67493931 -1.9589418
3 -0.1625984 ]
Round7951-------squared error: 3.9131 parameter: [18.398       0.67493885 -1.9589422
5 -0.16259833]
Round7952-------squared error: 3.9131 parameter: [18.398       0.67493839 -1.9589426
6 -0.16259826]
Round7953-------squared error: 3.9131 parameter: [18.398       0.67493794 -1.9589430
8 -0.16259819]
Round7954-------squared error: 3.9131 parameter: [18.398       0.67493748 -1.9589434
9 -0.16259812]
Round7955-------squared error: 3.9131 parameter: [18.398       0.67493702 -1.9589439
-0.16259805]
Round7956-------squared error: 3.9131 parameter: [18.398       0.67493657 -1.9589443
1 -0.16259798]
Round7957-------squared error: 3.9131 parameter: [18.398       0.67493611 -1.9589447
3 -0.16259791]
Round7958-------squared error: 3.9131 parameter: [18.398       0.67493566 -1.9589451
4 -0.16259784]
Round7959-------squared error: 3.9131 parameter: [18.398       0.6749352  -1.9589455
5 -0.16259777]
Round7960-------squared error: 3.9131 parameter: [18.398       0.67493475 -1.9589459
6 -0.1625977 ]
Round7961-------squared error: 3.9131 parameter: [18.398       0.6749343  -1.9589463
7 -0.16259763]
Round7962-------squared error: 3.9131 parameter: [18.398       0.67493384 -1.9589467
8 -0.16259756]
Round7963-------squared error: 3.9131 parameter: [18.398       0.67493339 -1.9589471
9 -0.16259749]
Round7964-------squared error: 3.9131 parameter: [18.398       0.67493294 -1.9589476
-0.16259742]
Round7965-------squared error: 3.9131 parameter: [18.398       0.67493249 -1.9589480
1 -0.16259735]
Round7966-------squared error: 3.9131 parameter: [18.398       0.67493204 -1.9589484
2 -0.16259729]
Round7967-------squared error: 3.9131 parameter: [18.398       0.67493159 -1.9589488
2 -0.16259722]
Round7968-------squared error: 3.9131 parameter: [18.398       0.67493113 -1.9589492
3 -0.16259715]
```

```
Round7969-------squared error: 3.9131 parameter: [18.398       0.67493068 -1.9589496
4 -0.16259708]
Round7970-------squared error: 3.9131 parameter: [18.398       0.67493024 -1.9589500
5 -0.16259701]
Round7971-------squared error: 3.9131 parameter: [18.398       0.67492979 -1.9589504
5 -0.16259694]
Round7972-------squared error: 3.9131 parameter: [18.398       0.67492934 -1.9589508
6 -0.16259687]
Round7973-------squared error: 3.9131 parameter: [18.398       0.67492889 -1.9589512
7 -0.16259681]
Round7974-------squared error: 3.9131 parameter: [18.398       0.67492844 -1.9589516
7 -0.16259674]
Round7975-------squared error: 3.9131 parameter: [18.398       0.67492799 -1.9589520
8 -0.16259667]
Round7976-------squared error: 3.9131 parameter: [18.398       0.67492755 -1.9589524
8 -0.1625966 ]
Round7977-------squared error: 3.9131 parameter: [18.398       0.6749271  -1.9589528
8 -0.16259653]
Round7978-------squared error: 3.9131 parameter: [18.398       0.67492666 -1.9589532
9 -0.16259646]
Round7979-------squared error: 3.9131 parameter: [18.398       0.67492621 -1.9589536
9 -0.1625964 ]
Round7980-------squared error: 3.9131 parameter: [18.398       0.67492576 -1.9589540
9 -0.16259633]
Round7981-------squared error: 3.9131 parameter: [18.398       0.67492532 -1.9589545
-0.16259626]
Round7982-------squared error: 3.9131 parameter: [18.398       0.67492488 -1.9589549
-0.16259619]
Round7983-------squared error: 3.9131 parameter: [18.398       0.67492443 -1.9589553
-0.16259612]
Round7984-------squared error: 3.9131 parameter: [18.398       0.67492399 -1.9589557
-0.16259606]
Round7985-------squared error: 3.9131 parameter: [18.398       0.67492355 -1.9589561
-0.16259599]
Round7986-------squared error: 3.9131 parameter: [18.398       0.6749231  -1.9589565
-0.16259592]
Round7987-------squared error: 3.9131 parameter: [18.398       0.67492266 -1.9589569
-0.16259585]
Round7988-------squared error: 3.9131 parameter: [18.398       0.67492222 -1.9589573
-0.16259579]
Round7989-------squared error: 3.9131 parameter: [18.398       0.67492178 -1.9589577
-0.16259572]
Round7990-------squared error: 3.9131 parameter: [18.398       0.67492134 -1.9589581
-0.16259565]
Round7991-------squared error: 3.9131 parameter: [18.398       0.6749209  -1.9589585
-0.16259558]
Round7992-------squared error: 3.9131 parameter: [18.398       0.67492046 -1.9589589
-0.16259552]
Round7993-------squared error: 3.9131 parameter: [18.398       0.67492002 -1.9589593
-0.16259545]
Round7994-------squared error: 3.9131 parameter: [18.398       0.67491958 -1.9589597
-0.16259538]
Round7995-------squared error: 3.9131 parameter: [18.398       0.67491914 -1.9589600
9 -0.16259532]
Round7996-------squared error: 3.9131 parameter: [18.398       0.6749187  -1.9589604
9 -0.16259525]
Round7997-------squared error: 3.9131 parameter: [18.398       0.67491826 -1.9589608
9 -0.16259518]
Round7998-------squared error: 3.9131 parameter: [18.398       0.67491783 -1.9589612
8 -0.16259511]
Round7999-------squared error: 3.9131 parameter: [18.398       0.67491739 -1.9589616
8 -0.16259505]
Round8000-------squared error: 3.9131 parameter: [18.398       0.67491695 -1.9589620
7 -0.16259498]
```

```
Round8001-------squared error: 3.9131 parameter: [18.398       0.67491652 -1.9589624
7 -0.16259491]
Round8002-------squared error: 3.9131 parameter: [18.398       0.67491608 -1.9589628
6 -0.16259485]
Round8003-------squared error: 3.9131 parameter: [18.398       0.67491564 -1.9589632
6 -0.16259478]
Round8004-------squared error: 3.9131 parameter: [18.398       0.67491521 -1.9589636
5 -0.16259472]
Round8005-------squared error: 3.9131 parameter: [18.398       0.67491477 -1.9589640
4 -0.16259465]
Round8006-------squared error: 3.9131 parameter: [18.398       0.67491434 -1.9589644
4 -0.16259458]
Round8007-------squared error: 3.9131 parameter: [18.398       0.67491391 -1.9589648
3 -0.16259452]
Round8008-------squared error: 3.9131 parameter: [18.398       0.67491347 -1.9589652
2 -0.16259445]
Round8009-------squared error: 3.9131 parameter: [18.398       0.67491304 -1.9589656
1 -0.16259438]
Round8010-------squared error: 3.9131 parameter: [18.398       0.67491261 -1.958966
-0.16259432]
Round8011-------squared error: 3.9131 parameter: [18.398       0.67491218 -1.9589664
-0.16259425]
Round8012-------squared error: 3.9131 parameter: [18.398       0.67491174 -1.9589667
9 -0.16259419]
Round8013-------squared error: 3.9131 parameter: [18.398       0.67491131 -1.9589671
8 -0.16259412]
Round8014-------squared error: 3.9131 parameter: [18.398       0.67491088 -1.9589675
7 -0.16259405]
Round8015-------squared error: 3.9131 parameter: [18.398       0.67491045 -1.9589679
6 -0.16259399]
Round8016-------squared error: 3.9131 parameter: [18.398       0.67491002 -1.9589683
5 -0.16259392]
Round8017-------squared error: 3.9131 parameter: [18.398       0.67490959 -1.9589687
3 -0.16259386]
Round8018-------squared error: 3.9131 parameter: [18.398       0.67490916 -1.9589691
2 -0.16259379]
Round8019-------squared error: 3.9131 parameter: [18.398       0.67490873 -1.9589695
1 -0.16259373]
Round8020-------squared error: 3.9131 parameter: [18.398       0.67490831 -1.9589699
-0.16259366]
Round8021-------squared error: 3.9131 parameter: [18.398       0.67490788 -1.9589702
9 -0.1625936 ]
Round8022-------squared error: 3.9131 parameter: [18.398       0.67490745 -1.9589706
7 -0.16259353]
Round8023-------squared error: 3.9131 parameter: [18.398       0.67490702 -1.9589710
6 -0.16259347]
Round8024-------squared error: 3.9131 parameter: [18.398       0.6749066  -1.9589714
5 -0.1625934 ]
Round8025-------squared error: 3.9131 parameter: [18.398       0.67490617 -1.9589718
3 -0.16259333]
Round8026-------squared error: 3.9131 parameter: [18.398       0.67490575 -1.9589722
2 -0.16259327]
Round8027-------squared error: 3.9131 parameter: [18.398       0.67490532 -1.9589726
-0.1625932 ]
Round8028-------squared error: 3.9131 parameter: [18.398       0.67490489 -1.9589729
9 -0.16259314]
Round8029-------squared error: 3.9131 parameter: [18.398       0.67490447 -1.9589733
7 -0.16259307]
Round8030-------squared error: 3.9131 parameter: [18.398       0.67490405 -1.9589737
6 -0.16259301]
Round8031-------squared error: 3.9131 parameter: [18.398       0.67490362 -1.9589741
4 -0.16259295]
Round8032-------squared error: 3.9131 parameter: [18.398       0.6749032  -1.9589745
2 -0.16259288]
```

```
Round8033-------squared error: 3.9131 parameter: [18.398       0.67490278 -1.9589749
1 -0.16259282]
Round8034-------squared error: 3.9131 parameter: [18.398       0.67490235 -1.9589752
9 -0.16259275]
Round8035-------squared error: 3.9131 parameter: [18.398       0.67490193 -1.9589756
7 -0.16259269]
Round8036-------squared error: 3.9131 parameter: [18.398       0.67490151 -1.9589760
5 -0.16259262]
Round8037-------squared error: 3.9131 parameter: [18.398       0.67490109 -1.9589764
3 -0.16259256]
Round8038-------squared error: 3.9131 parameter: [18.398       0.67490067 -1.9589768
2 -0.16259249]
Round8039-------squared error: 3.9131 parameter: [18.398       0.67490025 -1.9589772
-0.16259243]
Round8040-------squared error: 3.9131 parameter: [18.398       0.67489983 -1.9589775
8 -0.16259237]
Round8041-------squared error: 3.9131 parameter: [18.398       0.67489941 -1.9589779
6 -0.1625923 ]
Round8042-------squared error: 3.9131 parameter: [18.398       0.67489899 -1.9589783
4 -0.16259224]
Round8043-------squared error: 3.9131 parameter: [18.398       0.67489857 -1.9589787
2 -0.16259217]
Round8044-------squared error: 3.9131 parameter: [18.398       0.67489815 -1.9589790
9 -0.16259211]
Round8045-------squared error: 3.9131 parameter: [18.398       0.67489773 -1.9589794
7 -0.16259205]
Round8046-------squared error: 3.9131 parameter: [18.398       0.67489731 -1.9589798
5 -0.16259198]
Round8047-------squared error: 3.9131 parameter: [18.398       0.6748969  -1.9589802
3 -0.16259192]
Round8048-------squared error: 3.9131 parameter: [18.398       0.67489648 -1.9589806
1 -0.16259185]
Round8049-------squared error: 3.9131 parameter: [18.398       0.67489606 -1.9589809
8 -0.16259179]
Round8050-------squared error: 3.9131 parameter: [18.398       0.67489565 -1.9589813
6 -0.16259173]
Round8051-------squared error: 3.9131 parameter: [18.398       0.67489523 -1.9589817
4 -0.16259166]
Round8052-------squared error: 3.9131 parameter: [18.398       0.67489482 -1.9589821
1 -0.1625916 ]
Round8053-------squared error: 3.9131 parameter: [18.398       0.6748944  -1.9589824
9 -0.16259154]
Round8054-------squared error: 3.9131 parameter: [18.398       0.67489399 -1.9589828
6 -0.16259147]
Round8055-------squared error: 3.9131 parameter: [18.398       0.67489357 -1.9589832
4 -0.16259141]
Round8056-------squared error: 3.9131 parameter: [18.398       0.67489316 -1.9589836
1 -0.16259135]
Round8057-------squared error: 3.9131 parameter: [18.398       0.67489275 -1.9589839
9 -0.16259128]
Round8058-------squared error: 3.9131 parameter: [18.398       0.67489233 -1.9589843
6 -0.16259122]
Round8059-------squared error: 3.9131 parameter: [18.398       0.67489192 -1.9589847
3 -0.16259116]
Round8060-------squared error: 3.9131 parameter: [18.398       0.67489151 -1.9589851
1 -0.16259109]
Round8061-------squared error: 3.9131 parameter: [18.398       0.6748911  -1.9589854
8 -0.16259103]
Round8062-------squared error: 3.9131 parameter: [18.398       0.67489068 -1.9589858
5 -0.16259097]
Round8063-------squared error: 3.9131 parameter: [18.398       0.67489027 -1.9589862
2 -0.16259091]
Round8064-------squared error: 3.9131 parameter: [18.398       0.67488986 -1.9589866
-0.16259084]
```

```
Round8065-------squared error: 3.9131 parameter: [18.398       0.67488945 -1.9589869
7 -0.16259078]
Round8066-------squared error: 3.9131 parameter: [18.398       0.67488904 -1.9589873
4 -0.16259072]
Round8067-------squared error: 3.9131 parameter: [18.398       0.67488863 -1.9589877
1 -0.16259066]
Round8068-------squared error: 3.9131 parameter: [18.398       0.67488823 -1.9589880
8 -0.16259059]
Round8069-------squared error: 3.9131 parameter: [18.398       0.67488782 -1.9589884
5 -0.16259053]
Round8070-------squared error: 3.9131 parameter: [18.398       0.67488741 -1.9589888
2 -0.16259047]
Round8071-------squared error: 3.9131 parameter: [18.398       0.674887   -1.9589891
9 -0.16259041]
Round8072-------squared error: 3.9131 parameter: [18.398       0.67488659 -1.9589895
6 -0.16259034]
Round8073-------squared error: 3.9131 parameter: [18.398       0.67488619 -1.9589899
2 -0.16259028]
Round8074-------squared error: 3.9131 parameter: [18.398       0.67488578 -1.9589902
9 -0.16259022]
Round8075-------squared error: 3.9131 parameter: [18.398       0.67488537 -1.9589906
6 -0.16259016]
Round8076-------squared error: 3.9131 parameter: [18.398       0.67488497 -1.9589910
3 -0.1625901 ]
Round8077-------squared error: 3.9131 parameter: [18.398       0.67488456 -1.9589913
9 -0.16259003]
Round8078-------squared error: 3.9131 parameter: [18.398       0.67488416 -1.9589917
6 -0.16258997]
Round8079-------squared error: 3.9131 parameter: [18.398       0.67488375 -1.9589921
3 -0.16258991]
Round8080-------squared error: 3.9131 parameter: [18.398       0.67488335 -1.9589924
9 -0.16258985]
Round8081-------squared error: 3.9131 parameter: [18.398       0.67488294 -1.9589928
6 -0.16258979]
Round8082-------squared error: 3.9131 parameter: [18.398       0.67488254 -1.9589932
2 -0.16258973]
Round8083-------squared error: 3.9131 parameter: [18.398       0.67488214 -1.9589935
9 -0.16258966]
Round8084-------squared error: 3.9131 parameter: [18.398       0.67488174 -1.9589939
5 -0.1625896 ]
Round8085-------squared error: 3.9131 parameter: [18.398       0.67488133 -1.9589943
2 -0.16258954]
Round8086-------squared error: 3.9131 parameter: [18.398       0.67488093 -1.9589946
8 -0.16258948]
Round8087-------squared error: 3.9131 parameter: [18.398       0.67488053 -1.9589950
5 -0.16258942]
Round8088-------squared error: 3.9131 parameter: [18.398       0.67488013 -1.9589954
1 -0.16258936]
Round8089-------squared error: 3.9131 parameter: [18.398       0.67487973 -1.9589957
7 -0.1625893 ]
Round8090-------squared error: 3.9131 parameter: [18.398       0.67487933 -1.9589961
3 -0.16258923]
Round8091-------squared error: 3.9131 parameter: [18.398       0.67487893 -1.9589965
-0.16258917]
Round8092-------squared error: 3.9131 parameter: [18.398       0.67487853 -1.9589968
6 -0.16258911]
Round8093-------squared error: 3.9131 parameter: [18.398       0.67487813 -1.9589972
2 -0.16258905]
Round8094-------squared error: 3.9131 parameter: [18.398       0.67487773 -1.9589975
8 -0.16258899]
Round8095-------squared error: 3.9131 parameter: [18.398       0.67487733 -1.9589979
4 -0.16258893]
Round8096-------squared error: 3.9131 parameter: [18.398       0.67487693 -1.9589983
-0.16258887]
```

```
Round8097-------squared error: 3.9131 parameter: [18.398       0.67487654 -1.9589986
6 -0.16258881]
Round8098-------squared error: 3.9131 parameter: [18.398       0.67487614 -1.9589990
2 -0.16258875]
Round8099-------squared error: 3.9131 parameter: [18.398       0.67487574 -1.9589993
8 -0.16258869]
Round8100-------squared error: 3.9131 parameter: [18.398       0.67487534 -1.9589997
4 -0.16258863]
Round8101-------squared error: 3.9131 parameter: [18.398       0.67487495 -1.9590001
-0.16258857]
Round8102-------squared error: 3.9131 parameter: [18.398       0.67487455 -1.9590004
6 -0.1625885 ]
Round8103-------squared error: 3.9131 parameter: [18.398       0.67487416 -1.9590008
1 -0.16258844]
Round8104-------squared error: 3.9131 parameter: [18.398       0.67487376 -1.9590011
7 -0.16258838]
Round8105-------squared error: 3.9131 parameter: [18.398       0.67487337 -1.9590015
3 -0.16258832]
Round8106-------squared error: 3.9131 parameter: [18.398       0.67487297 -1.9590018
9 -0.16258826]
Round8107-------squared error: 3.9131 parameter: [18.398       0.67487258 -1.9590022
4 -0.1625882 ]
Round8108-------squared error: 3.9131 parameter: [18.398       0.67487219 -1.9590026
-0.16258814]
Round8109-------squared error: 3.9131 parameter: [18.398       0.67487179 -1.9590029
6 -0.16258808]
Round8110-------squared error: 3.9131 parameter: [18.398       0.6748714  -1.9590033
1 -0.16258802]
Round8111-------squared error: 3.9131 parameter: [18.398       0.67487101 -1.9590036
7 -0.16258796]
Round8112-------squared error: 3.9131 parameter: [18.398       0.67487062 -1.9590040
2 -0.1625879 ]
Round8113-------squared error: 3.9131 parameter: [18.398       0.67487022 -1.9590043
8 -0.16258784]
Round8114-------squared error: 3.9131 parameter: [18.398       0.67486983 -1.9590047
3 -0.16258778]
Round8115-------squared error: 3.9131 parameter: [18.398       0.67486944 -1.9590050
8 -0.16258772]
Round8116-------squared error: 3.9131 parameter: [18.398       0.67486905 -1.9590054
4 -0.16258766]
Round8117-------squared error: 3.9131 parameter: [18.398       0.67486866 -1.9590057
9 -0.1625876 ]
Round8118-------squared error: 3.9131 parameter: [18.398       0.67486827 -1.9590061
4 -0.16258755]
Round8119-------squared error: 3.9131 parameter: [18.398       0.67486788 -1.9590065
-0.16258749]
Round8120-------squared error: 3.9131 parameter: [18.398       0.67486749 -1.9590068
5 -0.16258743]
Round8121-------squared error: 3.9131 parameter: [18.398       0.6748671  -1.9590072
-0.16258737]
Round8122-------squared error: 3.9131 parameter: [18.398       0.67486672 -1.9590075
5 -0.16258731]
Round8123-------squared error: 3.9131 parameter: [18.398       0.67486633 -1.9590079
-0.16258725]
Round8124-------squared error: 3.9131 parameter: [18.398       0.67486594 -1.9590082
5 -0.16258719]
Round8125-------squared error: 3.9131 parameter: [18.398       0.67486555 -1.9590086
-0.16258713]
Round8126-------squared error: 3.9131 parameter: [18.398       0.67486517 -1.9590089
5 -0.16258707]
Round8127-------squared error: 3.9131 parameter: [18.398       0.67486478 -1.9590093
-0.16258701]
Round8128-------squared error: 3.9131 parameter: [18.398       0.6748644  -1.9590096
5 -0.16258695]
```

```
Round8129-------squared error: 3.9131 parameter: [18.398       0.67486401 -1.95901
-0.16258689]
Round8130-------squared error: 3.9131 parameter: [18.398       0.67486362 -1.9590103
5 -0.16258684]
Round8131-------squared error: 3.9131 parameter: [18.398       0.67486324 -1.9590107
-0.16258678]
Round8132-------squared error: 3.9131 parameter: [18.398       0.67486286 -1.9590110
5 -0.16258672]
Round8133-------squared error: 3.9131 parameter: [18.398       0.67486247 -1.9590113
9 -0.16258666]
Round8134-------squared error: 3.9131 parameter: [18.398       0.67486209 -1.9590117
4 -0.1625866 ]
Round8135-------squared error: 3.9131 parameter: [18.398       0.6748617  -1.9590120
9 -0.16258654]
Round8136-------squared error: 3.9131 parameter: [18.398       0.67486132 -1.9590124
4 -0.16258648]
Round8137-------squared error: 3.9131 parameter: [18.398       0.67486094 -1.9590127
8 -0.16258643]
Round8138-------squared error: 3.9131 parameter: [18.398       0.67486056 -1.9590131
3 -0.16258637]
Round8139-------squared error: 3.9131 parameter: [18.398       0.67486017 -1.9590134
7 -0.16258631]
Round8140-------squared error: 3.9131 parameter: [18.398       0.67485979 -1.9590138
2 -0.16258625]
Round8141-------squared error: 3.9131 parameter: [18.398       0.67485941 -1.9590141
6 -0.16258619]
Round8142-------squared error: 3.9131 parameter: [18.398       0.67485903 -1.9590145
1 -0.16258613]
Round8143-------squared error: 3.9131 parameter: [18.398       0.67485865 -1.9590148
5 -0.16258608]
Round8144-------squared error: 3.9131 parameter: [18.398       0.67485827 -1.9590152
-0.16258602]
Round8145-------squared error: 3.9131 parameter: [18.398       0.67485789 -1.9590155
4 -0.16258596]
Round8146-------squared error: 3.9131 parameter: [18.398       0.67485751 -1.9590158
9 -0.1625859 ]
Round8147-------squared error: 3.9131 parameter: [18.398       0.67485713 -1.9590162
3 -0.16258584]
Round8148-------squared error: 3.9131 parameter: [18.398       0.67485675 -1.9590165
7 -0.16258579]
Round8149-------squared error: 3.9131 parameter: [18.398       0.67485637 -1.9590169
1 -0.16258573]
Round8150-------squared error: 3.9131 parameter: [18.398       0.674856   -1.9590172
6 -0.16258567]
Round8151-------squared error: 3.9131 parameter: [18.398       0.67485562 -1.9590176
-0.16258561]
Round8152-------squared error: 3.9131 parameter: [18.398       0.67485524 -1.9590179
4 -0.16258556]
Round8153-------squared error: 3.9131 parameter: [18.398       0.67485487 -1.9590182
8 -0.1625855 ]
Round8154-------squared error: 3.9131 parameter: [18.398       0.67485449 -1.9590186
2 -0.16258544]
Round8155-------squared error: 3.9131 parameter: [18.398       0.67485411 -1.9590189
6 -0.16258538]
Round8156-------squared error: 3.9131 parameter: [18.398       0.67485374 -1.9590193
-0.16258533]
Round8157-------squared error: 3.9131 parameter: [18.398       0.67485336 -1.9590196
4 -0.16258527]
Round8158-------squared error: 3.9131 parameter: [18.398       0.67485299 -1.9590199
8 -0.16258521]
Round8159-------squared error: 3.9131 parameter: [18.398       0.67485261 -1.9590203
2 -0.16258515]
Round8160-------squared error: 3.9131 parameter: [18.398       0.67485224 -1.9590206
6 -0.1625851 ]
```

```
Round8161-------squared error: 3.9131 parameter: [18.398       0.67485186 -1.959021
-0.16258504]
Round8162-------squared error: 3.9131 parameter: [18.398       0.67485149 -1.9590213
4 -0.16258498]
Round8163-------squared error: 3.9131 parameter: [18.398       0.67485112 -1.9590216
7 -0.16258493]
Round8164-------squared error: 3.9131 parameter: [18.398       0.67485074 -1.9590220
1 -0.16258487]
Round8165-------squared error: 3.9131 parameter: [18.398       0.67485037 -1.9590223
5 -0.16258481]
Round8166-------squared error: 3.9131 parameter: [18.398       0.67485    -1.9590226
8 -0.16258475]
Round8167-------squared error: 3.9131 parameter: [18.398       0.67484963 -1.9590230
2 -0.1625847 ]
Round8168-------squared error: 3.9131 parameter: [18.398       0.67484926 -1.9590233
6 -0.16258464]
Round8169-------squared error: 3.9131 parameter: [18.398       0.67484889 -1.9590236
9 -0.16258458]
Round8170-------squared error: 3.9131 parameter: [18.398       0.67484852 -1.9590240
3 -0.16258453]
Round8171-------squared error: 3.9131 parameter: [18.398       0.67484814 -1.9590243
6 -0.16258447]
Round8172-------squared error: 3.9131 parameter: [18.398       0.67484777 -1.9590247
-0.16258441]
Round8173-------squared error: 3.9131 parameter: [18.398       0.67484741 -1.9590250
3 -0.16258436]
Round8174-------squared error: 3.9131 parameter: [18.398       0.67484704 -1.9590253
7 -0.1625843 ]
Round8175-------squared error: 3.9131 parameter: [18.398       0.67484667 -1.9590257
-0.16258425]
Round8176-------squared error: 3.9131 parameter: [18.398       0.6748463  -1.9590260
4 -0.16258419]
Round8177-------squared error: 3.9131 parameter: [18.398       0.67484593 -1.9590263
7 -0.16258413]
Round8178-------squared error: 3.9131 parameter: [18.398       0.67484556 -1.9590267
-0.16258408]
Round8179-------squared error: 3.9131 parameter: [18.398       0.6748452  -1.9590270
3 -0.16258402]
Round8180-------squared error: 3.9131 parameter: [18.398       0.67484483 -1.9590273
7 -0.16258396]
Round8181-------squared error: 3.9131 parameter: [18.398       0.67484446 -1.9590277
-0.16258391]
Round8182-------squared error: 3.9131 parameter: [18.398       0.67484409 -1.9590280
3 -0.16258385]
Round8183-------squared error: 3.9131 parameter: [18.398       0.67484373 -1.9590283
6 -0.1625838 ]
Round8184-------squared error: 3.9131 parameter: [18.398       0.67484336 -1.9590286
9 -0.16258374]
Round8185-------squared error: 3.9131 parameter: [18.398       0.674843   -1.9590290
2 -0.16258368]
Round8186-------squared error: 3.9131 parameter: [18.398       0.67484263 -1.9590293
5 -0.16258363]
Round8187-------squared error: 3.9131 parameter: [18.398       0.67484227 -1.9590296
8 -0.16258357]
Round8188-------squared error: 3.9131 parameter: [18.398       0.6748419  -1.9590300
1 -0.16258352]
Round8189-------squared error: 3.9131 parameter: [18.398       0.67484154 -1.9590303
4 -0.16258346]
Round8190-------squared error: 3.9131 parameter: [18.398       0.67484118 -1.9590306
7 -0.16258341]
Round8191-------squared error: 3.9131 parameter: [18.398       0.67484081 -1.959031
-0.16258335]
Round8192-------squared error: 3.9131 parameter: [18.398       0.67484045 -1.9590313
3 -0.1625833 ]
```

```
Round8193-------squared error: 3.9131 parameter: [18.398       0.67484009 -1.9590316
6 -0.16258324]
Round8194-------squared error: 3.9131 parameter: [18.398       0.67483973 -1.9590319
9 -0.16258318]
Round8195-------squared error: 3.9131 parameter: [18.398       0.67483936 -1.9590323
1 -0.16258313]
Round8196-------squared error: 3.9131 parameter: [18.398       0.674839   -1.9590326
4 -0.16258307]
Round8197-------squared error: 3.9131 parameter: [18.398       0.67483864 -1.9590329
7 -0.16258302]
Round8198-------squared error: 3.9131 parameter: [18.398       0.67483828 -1.9590332
9 -0.16258296]
Round8199-------squared error: 3.9131 parameter: [18.398       0.67483792 -1.9590336
2 -0.16258291]
Round8200-------squared error: 3.9131 parameter: [18.398       0.67483756 -1.9590339
5 -0.16258285]
Round8201-------squared error: 3.9131 parameter: [18.398       0.6748372  -1.9590342
7 -0.1625828 ]
Round8202-------squared error: 3.9131 parameter: [18.398       0.67483684 -1.9590346
-0.16258274]
Round8203-------squared error: 3.9131 parameter: [18.398       0.67483648 -1.9590349
2 -0.16258269]
Round8204-------squared error: 3.9131 parameter: [18.398       0.67483612 -1.9590352
5 -0.16258263]
Round8205-------squared error: 3.9131 parameter: [18.398       0.67483576 -1.9590355
7 -0.16258258]
Round8206-------squared error: 3.9131 parameter: [18.398       0.67483541 -1.9590359
-0.16258253]
Round8207-------squared error: 3.9131 parameter: [18.398       0.67483505 -1.9590362
2 -0.16258247]
Round8208-------squared error: 3.9131 parameter: [18.398       0.67483469 -1.9590365
4 -0.16258242]
Round8209-------squared error: 3.9131 parameter: [18.398       0.67483433 -1.9590368
7 -0.16258236]
Round8210-------squared error: 3.9131 parameter: [18.398       0.67483398 -1.9590371
9 -0.16258231]
Round8211-------squared error: 3.9131 parameter: [18.398       0.67483362 -1.9590375
1 -0.16258225]
Round8212-------squared error: 3.9131 parameter: [18.398       0.67483326 -1.9590378
3 -0.1625822 ]
Round8213-------squared error: 3.9131 parameter: [18.398       0.67483291 -1.9590381
6 -0.16258214]
Round8214-------squared error: 3.9131 parameter: [18.398       0.67483255 -1.9590384
8 -0.16258209]
Round8215-------squared error: 3.9131 parameter: [18.398       0.6748322  -1.9590388
-0.16258204]
Round8216-------squared error: 3.9131 parameter: [18.398       0.67483184 -1.9590391
2 -0.16258198]
Round8217-------squared error: 3.9131 parameter: [18.398       0.67483149 -1.9590394
4 -0.16258193]
Round8218-------squared error: 3.9131 parameter: [18.398       0.67483114 -1.9590397
6 -0.16258187]
Round8219-------squared error: 3.9131 parameter: [18.398       0.67483078 -1.9590400
8 -0.16258182]
Round8220-------squared error: 3.9131 parameter: [18.398       0.67483043 -1.9590404
-0.16258176]
Round8221-------squared error: 3.9131 parameter: [18.398       0.67483008 -1.9590407
2 -0.16258171]
Round8222-------squared error: 3.9131 parameter: [18.398       0.67482972 -1.9590410
4 -0.16258166]
Round8223-------squared error: 3.9131 parameter: [18.398       0.67482937 -1.9590413
6 -0.1625816 ]
Round8224-------squared error: 3.9131 parameter: [18.398       0.67482902 -1.9590416
8 -0.16258155]
```

```
Round8225-------squared error: 3.9131 parameter: [18.398       0.67482867 -1.959042
-0.1625815 ]
Round8226-------squared error: 3.9131 parameter: [18.398       0.67482832 -1.9590423
1 -0.16258144]
Round8227-------squared error: 3.9131 parameter: [18.398       0.67482797 -1.9590426
3 -0.16258139]
Round8228-------squared error: 3.9131 parameter: [18.398       0.67482762 -1.9590429
5 -0.16258134]
Round8229-------squared error: 3.9131 parameter: [18.398       0.67482727 -1.9590432
7 -0.16258128]
Round8230-------squared error: 3.9131 parameter: [18.398       0.67482692 -1.9590435
8 -0.16258123]
Round8231-------squared error: 3.9131 parameter: [18.398       0.67482657 -1.9590439
-0.16258117]
Round8232-------squared error: 3.9131 parameter: [18.398       0.67482622 -1.9590442
2 -0.16258112]
Round8233-------squared error: 3.9131 parameter: [18.398       0.67482587 -1.9590445
3 -0.16258107]
Round8234-------squared error: 3.9131 parameter: [18.398       0.67482552 -1.9590448
5 -0.16258101]
Round8235-------squared error: 3.9131 parameter: [18.398       0.67482517 -1.9590451
6 -0.16258096]
Round8236-------squared error: 3.9131 parameter: [18.398       0.67482482 -1.9590454
8 -0.16258091]
Round8237-------squared error: 3.9131 parameter: [18.398       0.67482448 -1.9590457
9 -0.16258086]
Round8238-------squared error: 3.9131 parameter: [18.398       0.67482413 -1.9590461
1 -0.1625808 ]
Round8239-------squared error: 3.9131 parameter: [18.398       0.67482378 -1.9590464
2 -0.16258075]
Round8240-------squared error: 3.9131 parameter: [18.398       0.67482344 -1.9590467
3 -0.1625807 ]
Round8241-------squared error: 3.9131 parameter: [18.398       0.67482309 -1.9590470
5 -0.16258064]
Round8242-------squared error: 3.9131 parameter: [18.398       0.67482274 -1.9590473
6 -0.16258059]
Round8243-------squared error: 3.9131 parameter: [18.398       0.6748224  -1.9590476
7 -0.16258054]
Round8244-------squared error: 3.9131 parameter: [18.398       0.67482205 -1.9590479
9 -0.16258049]
Round8245-------squared error: 3.9131 parameter: [18.398       0.67482171 -1.9590483
-0.16258043]
Round8246-------squared error: 3.9131 parameter: [18.398       0.67482136 -1.9590486
1 -0.16258038]
Round8247-------squared error: 3.9131 parameter: [18.398       0.67482102 -1.9590489
2 -0.16258033]
Round8248-------squared error: 3.9131 parameter: [18.398       0.67482068 -1.9590492
3 -0.16258027]
Round8249-------squared error: 3.9131 parameter: [18.398       0.67482033 -1.9590495
4 -0.16258022]
Round8250-------squared error: 3.9131 parameter: [18.398       0.67481999 -1.9590498
5 -0.16258017]
Round8251-------squared error: 3.9131 parameter: [18.398       0.67481965 -1.9590501
6 -0.16258012]
Round8252-------squared error: 3.9131 parameter: [18.398       0.6748193  -1.9590504
7 -0.16258007]
Round8253-------squared error: 3.9131 parameter: [18.398       0.67481896 -1.9590507
8 -0.16258001]
Round8254-------squared error: 3.9131 parameter: [18.398       0.67481862 -1.9590510
9 -0.16257996]
Round8255-------squared error: 3.9131 parameter: [18.398       0.67481828 -1.9590514
-0.16257991]
Round8256-------squared error: 3.9131 parameter: [18.398       0.67481794 -1.9590517
1 -0.16257986]
```

```
Round8257-------squared error: 3.9131 parameter: [18.398       0.6748176  -1.9590520
2 -0.1625798 ]
Round8258-------squared error: 3.9131 parameter: [18.398       0.67481726 -1.9590523
3 -0.16257975]
Round8259-------squared error: 3.9131 parameter: [18.398       0.67481691 -1.9590526
4 -0.1625797 ]
Round8260-------squared error: 3.9131 parameter: [18.398       0.67481658 -1.9590529
4 -0.16257965]
Round8261-------squared error: 3.9131 parameter: [18.398       0.67481624 -1.9590532
5 -0.1625796 ]
Round8262-------squared error: 3.9131 parameter: [18.398       0.6748159  -1.9590535
6 -0.16257954]
Round8263-------squared error: 3.9131 parameter: [18.398       0.67481556 -1.9590538
7 -0.16257949]
Round8264-------squared error: 3.9131 parameter: [18.398       0.67481522 -1.9590541
7 -0.16257944]
Round8265-------squared error: 3.9131 parameter: [18.398       0.67481488 -1.9590544
8 -0.16257939]
Round8266-------squared error: 3.9131 parameter: [18.398       0.67481454 -1.9590547
8 -0.16257934]
Round8267-------squared error: 3.9131 parameter: [18.398       0.6748142  -1.9590550
9 -0.16257929]
Round8268-------squared error: 3.9131 parameter: [18.398       0.67481387 -1.9590554
-0.16257923]
Round8269-------squared error: 3.9131 parameter: [18.398       0.67481353 -1.9590557
-0.16257918]
Round8270-------squared error: 3.9131 parameter: [18.398       0.67481319 -1.9590560
1 -0.16257913]
Round8271-------squared error: 3.9131 parameter: [18.398       0.67481286 -1.9590563
1 -0.16257908]
Round8272-------squared error: 3.9131 parameter: [18.398       0.67481252 -1.9590566
1 -0.16257903]
Round8273-------squared error: 3.9131 parameter: [18.398       0.67481219 -1.9590569
2 -0.16257898]
Round8274-------squared error: 3.9131 parameter: [18.398       0.67481185 -1.9590572
2 -0.16257893]
Round8275-------squared error: 3.9131 parameter: [18.398       0.67481152 -1.9590575
2 -0.16257888]
Round8276-------squared error: 3.9131 parameter: [18.398       0.67481118 -1.9590578
3 -0.16257882]
Round8277-------squared error: 3.9131 parameter: [18.398       0.67481085 -1.9590581
3 -0.16257877]
Round8278-------squared error: 3.9131 parameter: [18.398       0.67481051 -1.9590584
3 -0.16257872]
Round8279-------squared error: 3.9131 parameter: [18.398       0.67481018 -1.9590587
3 -0.16257867]
Round8280-------squared error: 3.9131 parameter: [18.398       0.67480985 -1.9590590
4 -0.16257862]
Round8281-------squared error: 3.9131 parameter: [18.398       0.67480951 -1.9590593
4 -0.16257857]
Round8282-------squared error: 3.9131 parameter: [18.398       0.67480918 -1.9590596
4 -0.16257852]
Round8283-------squared error: 3.9131 parameter: [18.398       0.67480885 -1.9590599
4 -0.16257847]
Round8284-------squared error: 3.9131 parameter: [18.398       0.67480852 -1.9590602
4 -0.16257842]
Round8285-------squared error: 3.9131 parameter: [18.398       0.67480818 -1.9590605
4 -0.16257837]
Round8286-------squared error: 3.9131 parameter: [18.398       0.67480785 -1.9590608
4 -0.16257832]
Round8287-------squared error: 3.9131 parameter: [18.398       0.67480752 -1.9590611
4 -0.16257827]
Round8288-------squared error: 3.9131 parameter: [18.398       0.67480719 -1.9590614
4 -0.16257821]
```

```
Round8289-------squared error: 3.9131 parameter: [18.398       0.67480686 -1.9590617
4 -0.16257816]
Round8290-------squared error: 3.9131 parameter: [18.398       0.67480653 -1.9590620
4 -0.16257811]
Round8291-------squared error: 3.9131 parameter: [18.398       0.6748062  -1.9590623
4 -0.16257806]
Round8292-------squared error: 3.9131 parameter: [18.398       0.67480587 -1.9590626
4 -0.16257801]
Round8293-------squared error: 3.9131 parameter: [18.398       0.67480554 -1.9590629
3 -0.16257796]
Round8294-------squared error: 3.9131 parameter: [18.398       0.67480521 -1.9590632
3 -0.16257791]
Round8295-------squared error: 3.9131 parameter: [18.398       0.67480488 -1.9590635
3 -0.16257786]
Round8296-------squared error: 3.9131 parameter: [18.398       0.67480455 -1.9590638
3 -0.16257781]
Round8297-------squared error: 3.9131 parameter: [18.398       0.67480423 -1.9590641
2 -0.16257776]
Round8298-------squared error: 3.9131 parameter: [18.398       0.6748039  -1.9590644
2 -0.16257771]
Round8299-------squared error: 3.9131 parameter: [18.398       0.67480357 -1.9590647
2 -0.16257766]
Round8300-------squared error: 3.9131 parameter: [18.398       0.67480324 -1.9590650
1 -0.16257761]
Round8301-------squared error: 3.9131 parameter: [18.398       0.67480292 -1.9590653
1 -0.16257756]
Round8302-------squared error: 3.9131 parameter: [18.398       0.67480259 -1.9590656
-0.16257751]
Round8303-------squared error: 3.9131 parameter: [18.398       0.67480227 -1.9590659
-0.16257746]
Round8304-------squared error: 3.9131 parameter: [18.398       0.67480194 -1.9590661
9 -0.16257741]
Round8305-------squared error: 3.9131 parameter: [18.398       0.67480161 -1.9590664
9 -0.16257736]
Round8306-------squared error: 3.9131 parameter: [18.398       0.67480129 -1.9590667
8 -0.16257731]
Round8307-------squared error: 3.9131 parameter: [18.398       0.67480096 -1.9590670
8 -0.16257726]
Round8308-------squared error: 3.9131 parameter: [18.398       0.67480064 -1.9590673
7 -0.16257721]
Round8309-------squared error: 3.9131 parameter: [18.398       0.67480032 -1.9590676
6 -0.16257716]
Round8310-------squared error: 3.9131 parameter: [18.398       0.67479999 -1.9590679
6 -0.16257712]
Round8311-------squared error: 3.9131 parameter: [18.398       0.67479967 -1.9590682
5 -0.16257707]
Round8312-------squared error: 3.9131 parameter: [18.398       0.67479934 -1.9590685
4 -0.16257702]
Round8313-------squared error: 3.9131 parameter: [18.398       0.67479902 -1.9590688
4 -0.16257697]
Round8314-------squared error: 3.9131 parameter: [18.398       0.6747987  -1.9590691
3 -0.16257692]
Round8315-------squared error: 3.9131 parameter: [18.398       0.67479838 -1.9590694
2 -0.16257687]
Round8316-------squared error: 3.9131 parameter: [18.398       0.67479805 -1.9590697
1 -0.16257682]
Round8317-------squared error: 3.9131 parameter: [18.398       0.67479773 -1.95907
-0.16257677]
Round8318-------squared error: 3.9131 parameter: [18.398       0.67479741 -1.9590702
9 -0.16257672]
Round8319-------squared error: 3.9131 parameter: [18.398       0.67479709 -1.9590705
8 -0.16257667]
Round8320-------squared error: 3.9131 parameter: [18.398       0.67479677 -1.9590708
7 -0.16257662]
```

```
Round8321-------squared error: 3.9131 parameter: [18.398       0.67479645 -1.9590711
6 -0.16257657]
Round8322-------squared error: 3.9131 parameter: [18.398       0.67479613 -1.9590714
5 -0.16257653]
Round8323-------squared error: 3.9131 parameter: [18.398       0.67479581 -1.9590717
4 -0.16257648]
Round8324-------squared error: 3.9131 parameter: [18.398       0.67479549 -1.9590720
3 -0.16257643]
Round8325-------squared error: 3.9131 parameter: [18.398       0.67479517 -1.9590723
2 -0.16257638]
Round8326-------squared error: 3.9131 parameter: [18.398       0.67479485 -1.9590726
1 -0.16257633]
Round8327-------squared error: 3.9131 parameter: [18.398       0.67479453 -1.9590729
-0.16257628]
Round8328-------squared error: 3.9131 parameter: [18.398       0.67479421 -1.9590731
9 -0.16257623]
Round8329-------squared error: 3.9131 parameter: [18.398       0.6747939  -1.9590734
8 -0.16257618]
Round8330-------squared error: 3.9131 parameter: [18.398       0.67479358 -1.9590737
6 -0.16257614]
Round8331-------squared error: 3.9131 parameter: [18.398       0.67479326 -1.9590740
5 -0.16257609]
Round8332-------squared error: 3.9131 parameter: [18.398       0.67479294 -1.9590743
4 -0.16257604]
Round8333-------squared error: 3.9131 parameter: [18.398       0.67479263 -1.9590746
2 -0.16257599]
Round8334-------squared error: 3.9131 parameter: [18.398       0.67479231 -1.9590749
1 -0.16257594]
Round8335-------squared error: 3.9131 parameter: [18.398       0.67479199 -1.9590752
-0.16257589]
Round8336-------squared error: 3.9131 parameter: [18.398       0.67479168 -1.9590754
8 -0.16257585]
Round8337-------squared error: 3.9131 parameter: [18.398       0.67479136 -1.9590757
7 -0.1625758 ]
Round8338-------squared error: 3.9131 parameter: [18.398       0.67479105 -1.9590760
5 -0.16257575]
Round8339-------squared error: 3.9131 parameter: [18.398       0.67479073 -1.9590763
4 -0.1625757 ]
Round8340-------squared error: 3.9131 parameter: [18.398       0.67479042 -1.9590766
2 -0.16257565]
Round8341-------squared error: 3.9131 parameter: [18.398       0.6747901  -1.9590769
1 -0.1625756 ]
Round8342-------squared error: 3.9131 parameter: [18.398       0.67478979 -1.9590771
9 -0.16257556]
Round8343-------squared error: 3.9131 parameter: [18.398       0.67478948 -1.9590774
8 -0.16257551]
Round8344-------squared error: 3.9131 parameter: [18.398       0.67478916 -1.9590777
6 -0.16257546]
Round8345-------squared error: 3.9131 parameter: [18.398       0.67478885 -1.9590780
4 -0.16257541]
Round8346-------squared error: 3.9131 parameter: [18.398       0.67478854 -1.9590783
3 -0.16257537]
Round8347-------squared error: 3.9131 parameter: [18.398       0.67478822 -1.9590786
1 -0.16257532]
Round8348-------squared error: 3.9131 parameter: [18.398       0.67478791 -1.9590788
9 -0.16257527]
Round8349-------squared error: 3.9131 parameter: [18.398       0.6747876  -1.9590791
8 -0.16257522]
Round8350-------squared error: 3.9131 parameter: [18.398       0.67478729 -1.9590794
6 -0.16257517]
Round8351-------squared error: 3.9131 parameter: [18.398       0.67478698 -1.9590797
4 -0.16257513]
Round8352-------squared error: 3.9131 parameter: [18.398       0.67478667 -1.9590800
2 -0.16257508]
```

```
Round8353-------squared error: 3.9131 parameter: [18.398       0.67478635 -1.9590803
-0.16257503]
Round8354-------squared error: 3.9131 parameter: [18.398       0.67478604 -1.9590805
8 -0.16257498]
Round8355-------squared error: 3.9131 parameter: [18.398       0.67478573 -1.9590808
7 -0.16257494]
Round8356-------squared error: 3.9131 parameter: [18.398       0.67478542 -1.9590811
5 -0.16257489]
Round8357-------squared error: 3.9131 parameter: [18.398       0.67478511 -1.9590814
3 -0.16257484]
Round8358-------squared error: 3.9131 parameter: [18.398       0.67478481 -1.9590817
1 -0.1625748 ]
Round8359-------squared error: 3.9131 parameter: [18.398       0.6747845  -1.9590819
9 -0.16257475]
Round8360-------squared error: 3.9131 parameter: [18.398       0.67478419 -1.9590822
7 -0.1625747 ]
Round8361-------squared error: 3.9131 parameter: [18.398       0.67478388 -1.9590825
4 -0.16257465]
Round8362-------squared error: 3.9131 parameter: [18.398       0.67478357 -1.9590828
2 -0.16257461]
Round8363-------squared error: 3.9131 parameter: [18.398       0.67478326 -1.9590831
-0.16257456]
Round8364-------squared error: 3.9131 parameter: [18.398       0.67478296 -1.9590833
8 -0.16257451]
Round8365-------squared error: 3.9131 parameter: [18.398       0.67478265 -1.9590836
6 -0.16257447]
Round8366-------squared error: 3.9131 parameter: [18.398       0.67478234 -1.9590839
4 -0.16257442]
Round8367-------squared error: 3.9131 parameter: [18.398       0.67478204 -1.9590842
1 -0.16257437]
Round8368-------squared error: 3.9131 parameter: [18.398       0.67478173 -1.9590844
9 -0.16257433]
Round8369-------squared error: 3.9131 parameter: [18.398       0.67478142 -1.9590847
7 -0.16257428]
Round8370-------squared error: 3.9131 parameter: [18.398       0.67478112 -1.9590850
4 -0.16257423]
Round8371-------squared error: 3.9131 parameter: [18.398       0.67478081 -1.9590853
2 -0.16257419]
Round8372-------squared error: 3.9131 parameter: [18.398       0.67478051 -1.9590856
-0.16257414]
Round8373-------squared error: 3.9131 parameter: [18.398       0.6747802  -1.9590858
7 -0.16257409]
Round8374-------squared error: 3.9131 parameter: [18.398       0.6747799  -1.9590861
5 -0.16257405]
Round8375-------squared error: 3.9131 parameter: [18.398       0.67477959 -1.9590864
2 -0.162574  ]
Round8376-------squared error: 3.9131 parameter: [18.398       0.67477929 -1.9590867
-0.16257395]
Round8377-------squared error: 3.9131 parameter: [18.398       0.67477899 -1.9590869
7 -0.16257391]
Round8378-------squared error: 3.9131 parameter: [18.398       0.67477868 -1.9590872
5 -0.16257386]
Round8379-------squared error: 3.9131 parameter: [18.398       0.67477838 -1.9590875
2 -0.16257381]
Round8380-------squared error: 3.9131 parameter: [18.398       0.67477808 -1.9590878
-0.16257377]
Round8381-------squared error: 3.9131 parameter: [18.398       0.67477777 -1.9590880
7 -0.16257372]
Round8382-------squared error: 3.9131 parameter: [18.398       0.67477747 -1.9590883
5 -0.16257368]
Round8383-------squared error: 3.9131 parameter: [18.398       0.67477717 -1.9590886
2 -0.16257363]
Round8384-------squared error: 3.9131 parameter: [18.398       0.67477687 -1.9590888
9 -0.16257358]
```

```
Round8385-------squared error: 3.9131 parameter: [18.398       0.67477657 -1.9590891
6 -0.16257354]
Round8386-------squared error: 3.9131 parameter: [18.398       0.67477627 -1.9590894
4 -0.16257349]
Round8387-------squared error: 3.9131 parameter: [18.398       0.67477596 -1.9590897
1 -0.16257345]
Round8388-------squared error: 3.9131 parameter: [18.398       0.67477566 -1.9590899
8 -0.1625734 ]
Round8389-------squared error: 3.9131 parameter: [18.398       0.67477536 -1.9590902
5 -0.16257335]
Round8390-------squared error: 3.9131 parameter: [18.398       0.67477506 -1.9590905
2 -0.16257331]
Round8391-------squared error: 3.9131 parameter: [18.398       0.67477476 -1.9590908
-0.16257326]
Round8392-------squared error: 3.9131 parameter: [18.398       0.67477447 -1.9590910
7 -0.16257322]
Round8393-------squared error: 3.9131 parameter: [18.398       0.67477417 -1.9590913
4 -0.16257317]
Round8394-------squared error: 3.9131 parameter: [18.398       0.67477387 -1.9590916
1 -0.16257312]
Round8395-------squared error: 3.9131 parameter: [18.398       0.67477357 -1.9590918
8 -0.16257308]
Round8396-------squared error: 3.9131 parameter: [18.398       0.67477327 -1.9590921
5 -0.16257303]
Round8397-------squared error: 3.9131 parameter: [18.398       0.67477297 -1.9590924
2 -0.16257299]
Round8398-------squared error: 3.9131 parameter: [18.398       0.67477268 -1.9590926
9 -0.16257294]
Round8399-------squared error: 3.9131 parameter: [18.398       0.67477238 -1.9590929
6 -0.1625729 ]
Round8400-------squared error: 3.9131 parameter: [18.398       0.67477208 -1.9590932
2 -0.16257285]
Round8401-------squared error: 3.9131 parameter: [18.398       0.67477178 -1.9590934
9 -0.16257281]
Round8402-------squared error: 3.9131 parameter: [18.398       0.67477149 -1.9590937
6 -0.16257276]
Round8403-------squared error: 3.9131 parameter: [18.398       0.67477119 -1.9590940
3 -0.16257272]
Round8404-------squared error: 3.9131 parameter: [18.398       0.6747709  -1.9590943
-0.16257267]
Round8405-------squared error: 3.9131 parameter: [18.398       0.6747706  -1.9590945
7 -0.16257263]
Round8406-------squared error: 3.9131 parameter: [18.398       0.67477031 -1.9590948
3 -0.16257258]
Round8407-------squared error: 3.9131 parameter: [18.398       0.67477001 -1.9590951
-0.16257254]
Round8408-------squared error: 3.9131 parameter: [18.398       0.67476972 -1.9590953
7 -0.16257249]
Round8409-------squared error: 3.9131 parameter: [18.398       0.67476942 -1.9590956
3 -0.16257245]
Round8410-------squared error: 3.9131 parameter: [18.398       0.67476913 -1.9590959
-0.1625724 ]
Round8411-------squared error: 3.9131 parameter: [18.398       0.67476883 -1.9590961
7 -0.16257236]
Round8412-------squared error: 3.9131 parameter: [18.398       0.67476854 -1.9590964
3 -0.16257231]
Round8413-------squared error: 3.9131 parameter: [18.398       0.67476825 -1.9590967
-0.16257227]
Round8414-------squared error: 3.9131 parameter: [18.398       0.67476795 -1.9590969
6 -0.16257222]
Round8415-------squared error: 3.9131 parameter: [18.398       0.67476766 -1.9590972
3 -0.16257218]
Round8416-------squared error: 3.9131 parameter: [18.398       0.67476737 -1.9590974
9 -0.16257213]
```

```
Round8417-------squared error: 3.9131 parameter: [18.398       0.67476708 -1.9590977
6 -0.16257209]
Round8418-------squared error: 3.9131 parameter: [18.398       0.67476678 -1.9590980
2 -0.16257204]
Round8419-------squared error: 3.9131 parameter: [18.398       0.67476649 -1.9590982
8 -0.162572  ]
Round8420-------squared error: 3.9131 parameter: [18.398       0.6747662  -1.9590985
5 -0.16257195]
Round8421-------squared error: 3.9131 parameter: [18.398       0.67476591 -1.9590988
1 -0.16257191]
Round8422-------squared error: 3.9131 parameter: [18.398       0.67476562 -1.9590990
8 -0.16257186]
Round8423-------squared error: 3.9131 parameter: [18.398       0.67476533 -1.9590993
4 -0.16257182]
Round8424-------squared error: 3.9131 parameter: [18.398       0.67476504 -1.9590996
-0.16257178]
Round8425-------squared error: 3.9131 parameter: [18.398       0.67476475 -1.9590998
6 -0.16257173]
Round8426-------squared error: 3.9131 parameter: [18.398       0.67476446 -1.9591001
3 -0.16257169]
Round8427-------squared error: 3.9131 parameter: [18.398       0.67476417 -1.9591003
9 -0.16257164]
Round8428-------squared error: 3.9131 parameter: [18.398       0.67476388 -1.9591006
5 -0.1625716 ]
Round8429-------squared error: 3.9131 parameter: [18.398       0.67476359 -1.9591009
1 -0.16257156]
Round8430-------squared error: 3.9131 parameter: [18.398       0.6747633  -1.9591011
7 -0.16257151]
Round8431-------squared error: 3.9131 parameter: [18.398       0.67476301 -1.9591014
3 -0.16257147]
Round8432-------squared error: 3.9131 parameter: [18.398       0.67476273 -1.9591016
9 -0.16257142]
Round8433-------squared error: 3.9131 parameter: [18.398       0.67476244 -1.9591019
5 -0.16257138]
Round8434-------squared error: 3.9131 parameter: [18.398       0.67476215 -1.9591022
1 -0.16257134]
Round8435-------squared error: 3.9131 parameter: [18.398       0.67476186 -1.9591024
7 -0.16257129]
Round8436-------squared error: 3.9131 parameter: [18.398       0.67476158 -1.9591027
3 -0.16257125]
Round8437-------squared error: 3.9131 parameter: [18.398       0.67476129 -1.9591029
9 -0.1625712 ]
Round8438-------squared error: 3.9131 parameter: [18.398       0.674761   -1.9591032
5 -0.16257116]
Round8439-------squared error: 3.9131 parameter: [18.398       0.67476072 -1.9591035
1 -0.16257112]
Round8440-------squared error: 3.9131 parameter: [18.398       0.67476043 -1.9591037
7 -0.16257107]
Round8441-------squared error: 3.9131 parameter: [18.398       0.67476015 -1.9591040
3 -0.16257103]
Round8442-------squared error: 3.9131 parameter: [18.398       0.67475986 -1.9591042
9 -0.16257099]
Round8443-------squared error: 3.9131 parameter: [18.398       0.67475958 -1.9591045
4 -0.16257094]
Round8444-------squared error: 3.9131 parameter: [18.398       0.67475929 -1.9591048
-0.1625709 ]
Round8445-------squared error: 3.9131 parameter: [18.398       0.67475901 -1.9591050
6 -0.16257085]
Round8446-------squared error: 3.9131 parameter: [18.398       0.67475872 -1.9591053
2 -0.16257081]
Round8447-------squared error: 3.9131 parameter: [18.398       0.67475844 -1.9591055
7 -0.16257077]
Round8448-------squared error: 3.9131 parameter: [18.398       0.67475816 -1.9591058
3 -0.16257072]
```

```
Round8449-------squared error: 3.9131 parameter: [18.398       0.67475787 -1.9591060
9 -0.16257068]
Round8450-------squared error: 3.9131 parameter: [18.398       0.67475759 -1.9591063
4 -0.16257064]
Round8451-------squared error: 3.9131 parameter: [18.398       0.67475731 -1.9591066
-0.1625706 ]
Round8452-------squared error: 3.9131 parameter: [18.398       0.67475703 -1.9591068
6 -0.16257055]
Round8453-------squared error: 3.9131 parameter: [18.398       0.67475674 -1.9591071
1 -0.16257051]
Round8454-------squared error: 3.9131 parameter: [18.398       0.67475646 -1.9591073
7 -0.16257047]
Round8455-------squared error: 3.9131 parameter: [18.398       0.67475618 -1.9591076
2 -0.16257042]
Round8456-------squared error: 3.9131 parameter: [18.398       0.6747559  -1.9591078
8 -0.16257038]
Round8457-------squared error: 3.9131 parameter: [18.398       0.67475562 -1.9591081
3 -0.16257034]
Round8458-------squared error: 3.9131 parameter: [18.398       0.67475534 -1.9591083
8 -0.16257029]
Round8459-------squared error: 3.9131 parameter: [18.398       0.67475506 -1.9591086
4 -0.16257025]
Round8460-------squared error: 3.9131 parameter: [18.398       0.67475477 -1.9591088
9 -0.16257021]
Round8461-------squared error: 3.9131 parameter: [18.398       0.67475449 -1.9591091
5 -0.16257017]
Round8462-------squared error: 3.9131 parameter: [18.398       0.67475422 -1.9591094
-0.16257012]
Round8463-------squared error: 3.9131 parameter: [18.398       0.67475394 -1.9591096
5 -0.16257008]
Round8464-------squared error: 3.9131 parameter: [18.398       0.67475366 -1.9591099
1 -0.16257004]
Round8465-------squared error: 3.9131 parameter: [18.398       0.67475338 -1.9591101
6 -0.16256999]
Round8466-------squared error: 3.9131 parameter: [18.398       0.6747531  -1.9591104
1 -0.16256995]
Round8467-------squared error: 3.9131 parameter: [18.398       0.67475282 -1.9591106
6 -0.16256991]
Round8468-------squared error: 3.9131 parameter: [18.398       0.67475254 -1.9591109
1 -0.16256987]
Round8469-------squared error: 3.9131 parameter: [18.398       0.67475226 -1.9591111
7 -0.16256982]
Round8470-------squared error: 3.9131 parameter: [18.398       0.67475199 -1.9591114
2 -0.16256978]
Round8471-------squared error: 3.9131 parameter: [18.398       0.67475171 -1.9591116
7 -0.16256974]
Round8472-------squared error: 3.9131 parameter: [18.398       0.67475143 -1.9591119
2 -0.1625697 ]
Round8473-------squared error: 3.9131 parameter: [18.398       0.67475116 -1.9591121
7 -0.16256966]
Round8474-------squared error: 3.9131 parameter: [18.398       0.67475088 -1.9591124
2 -0.16256961]
Round8475-------squared error: 3.9131 parameter: [18.398       0.6747506  -1.9591126
7 -0.16256957]
Round8476-------squared error: 3.9131 parameter: [18.398       0.67475033 -1.9591129
2 -0.16256953]
Round8477-------squared error: 3.9131 parameter: [18.398       0.67475005 -1.9591131
7 -0.16256949]
Round8478-------squared error: 3.9131 parameter: [18.398       0.67474978 -1.9591134
2 -0.16256944]
Round8479-------squared error: 3.9131 parameter: [18.398       0.6747495  -1.9591136
7 -0.1625694 ]
Round8480-------squared error: 3.9131 parameter: [18.398       0.67474922 -1.9591139
2 -0.16256936]
```

```
Round8481-------squared error: 3.9131 parameter: [18.398       0.67474895 -1.9591141
7 -0.16256932]
Round8482-------squared error: 3.9131 parameter: [18.398       0.67474868 -1.9591144
1 -0.16256928]
Round8483-------squared error: 3.9131 parameter: [18.398       0.6747484  -1.9591146
6 -0.16256923]
Round8484-------squared error: 3.9131 parameter: [18.398       0.67474813 -1.9591149
1 -0.16256919]
Round8485-------squared error: 3.9131 parameter: [18.398       0.67474785 -1.9591151
6 -0.16256915]
Round8486-------squared error: 3.9131 parameter: [18.398       0.67474758 -1.9591154
1 -0.16256911]
Round8487-------squared error: 3.9131 parameter: [18.398       0.67474731 -1.9591156
5 -0.16256907]
Round8488-------squared error: 3.9131 parameter: [18.398       0.67474703 -1.9591159
-0.16256903]
Round8489-------squared error: 3.9131 parameter: [18.398       0.67474676 -1.9591161
5 -0.16256898]
Round8490-------squared error: 3.9131 parameter: [18.398       0.67474649 -1.9591163
9 -0.16256894]
Round8491-------squared error: 3.9131 parameter: [18.398       0.67474622 -1.9591166
4 -0.1625689 ]
Round8492-------squared error: 3.9131 parameter: [18.398       0.67474595 -1.9591168
9 -0.16256886]
Round8493-------squared error: 3.9131 parameter: [18.398       0.67474567 -1.9591171
3 -0.16256882]
Round8494-------squared error: 3.9131 parameter: [18.398       0.6747454  -1.9591173
8 -0.16256878]
Round8495-------squared error: 3.9131 parameter: [18.398       0.67474513 -1.9591176
2 -0.16256874]
Round8496-------squared error: 3.9131 parameter: [18.398       0.67474486 -1.9591178
7 -0.16256869]
Round8497-------squared error: 3.9131 parameter: [18.398       0.67474459 -1.9591181
1 -0.16256865]
Round8498-------squared error: 3.9131 parameter: [18.398       0.67474432 -1.9591183
6 -0.16256861]
Round8499-------squared error: 3.9131 parameter: [18.398       0.67474405 -1.9591186
-0.16256857]
Round8500-------squared error: 3.9131 parameter: [18.398       0.67474378 -1.9591188
5 -0.16256853]
Round8501-------squared error: 3.9131 parameter: [18.398       0.67474351 -1.9591190
9 -0.16256849]
Round8502-------squared error: 3.9131 parameter: [18.398       0.67474324 -1.9591193
3 -0.16256845]
Round8503-------squared error: 3.9131 parameter: [18.398       0.67474297 -1.9591195
8 -0.16256841]
Round8504-------squared error: 3.9131 parameter: [18.398       0.6747427  -1.9591198
2 -0.16256836]
Round8505-------squared error: 3.9131 parameter: [18.398       0.67474244 -1.9591200
6 -0.16256832]
Round8506-------squared error: 3.9131 parameter: [18.398       0.67474217 -1.9591203
1 -0.16256828]
Round8507-------squared error: 3.9131 parameter: [18.398       0.6747419  -1.9591205
5 -0.16256824]
Round8508-------squared error: 3.9131 parameter: [18.398       0.67474163 -1.9591207
9 -0.1625682 ]
Round8509-------squared error: 3.9131 parameter: [18.398       0.67474136 -1.9591210
3 -0.16256816]
Round8510-------squared error: 3.9131 parameter: [18.398       0.6747411  -1.9591212
7 -0.16256812]
Round8511-------squared error: 3.9131 parameter: [18.398       0.67474083 -1.9591215
2 -0.16256808]
Round8512-------squared error: 3.9131 parameter: [18.398       0.67474056 -1.9591217
6 -0.16256804]
```

```
Round8513-------squared error: 3.9131 parameter: [18.398      0.6747403 -1.959122  -
0.162568 ]
Round8514-------squared error: 3.9131 parameter: [18.398       0.67474003 -1.9591222
4 -0.16256796]
Round8515-------squared error: 3.9131 parameter: [18.398       0.67473977 -1.9591224
8 -0.16256792]
Round8516-------squared error: 3.9131 parameter: [18.398       0.6747395  -1.9591227
2 -0.16256788]
Round8517-------squared error: 3.9131 parameter: [18.398       0.67473923 -1.9591229
6 -0.16256783]
Round8518-------squared error: 3.9131 parameter: [18.398       0.67473897 -1.9591232
-0.16256779]
Round8519-------squared error: 3.9131 parameter: [18.398       0.6747387  -1.9591234
4 -0.16256775]
Round8520-------squared error: 3.9131 parameter: [18.398       0.67473844 -1.9591236
8 -0.16256771]
Round8521-------squared error: 3.9131 parameter: [18.398       0.67473818 -1.9591239
2 -0.16256767]
Round8522-------squared error: 3.9131 parameter: [18.398       0.67473791 -1.9591241
6 -0.16256763]
Round8523-------squared error: 3.9131 parameter: [18.398       0.67473765 -1.9591244
-0.16256759]
Round8524-------squared error: 3.9131 parameter: [18.398       0.67473738 -1.9591246
4 -0.16256755]
Round8525-------squared error: 3.9131 parameter: [18.398       0.67473712 -1.9591248
7 -0.16256751]
Round8526-------squared error: 3.9131 parameter: [18.398       0.67473686 -1.9591251
1 -0.16256747]
Round8527-------squared error: 3.9131 parameter: [18.398       0.6747366  -1.9591253
5 -0.16256743]
Round8528-------squared error: 3.9131 parameter: [18.398       0.67473633 -1.9591255
9 -0.16256739]
Round8529-------squared error: 3.9131 parameter: [18.398       0.67473607 -1.9591258
3 -0.16256735]
Round8530-------squared error: 3.9131 parameter: [18.398       0.67473581 -1.9591260
6 -0.16256731]
Round8531-------squared error: 3.9131 parameter: [18.398       0.67473555 -1.9591263
-0.16256727]
Round8532-------squared error: 3.9131 parameter: [18.398       0.67473529 -1.9591265
4 -0.16256723]
Round8533-------squared error: 3.9131 parameter: [18.398       0.67473502 -1.9591267
7 -0.16256719]
Round8534-------squared error: 3.9131 parameter: [18.398       0.67473476 -1.9591270
1 -0.16256715]
Round8535-------squared error: 3.9131 parameter: [18.398       0.6747345  -1.9591272
5 -0.16256711]
Round8536-------squared error: 3.9131 parameter: [18.398       0.67473424 -1.9591274
8 -0.16256707]
Round8537-------squared error: 3.9131 parameter: [18.398       0.67473398 -1.9591277
2 -0.16256703]
Round8538-------squared error: 3.9131 parameter: [18.398       0.67473372 -1.9591279
5 -0.16256699]
Round8539-------squared error: 3.9131 parameter: [18.398       0.67473346 -1.9591281
9 -0.16256695]
Round8540-------squared error: 3.9131 parameter: [18.398       0.6747332  -1.9591284
2 -0.16256691]
Round8541-------squared error: 3.9131 parameter: [18.398       0.67473294 -1.9591286
6 -0.16256687]
Round8542-------squared error: 3.9131 parameter: [18.398       0.67473268 -1.9591288
9 -0.16256683]
Round8543-------squared error: 3.9131 parameter: [18.398       0.67473242 -1.9591291
3 -0.16256679]
Round8544-------squared error: 3.9131 parameter: [18.398       0.67473217 -1.9591293
6 -0.16256675]
```

```
Round8545-------squared error: 3.9131 parameter: [18.398       0.67473191 -1.9591295
9 -0.16256672]
Round8546-------squared error: 3.9131 parameter: [18.398       0.67473165 -1.9591298
3 -0.16256668]
Round8547-------squared error: 3.9131 parameter: [18.398       0.67473139 -1.9591300
6 -0.16256664]
Round8548-------squared error: 3.9131 parameter: [18.398       0.67473113 -1.9591302
9 -0.1625666 ]
Round8549-------squared error: 3.9131 parameter: [18.398       0.67473088 -1.9591305
3 -0.16256656]
Round8550-------squared error: 3.9131 parameter: [18.398       0.67473062 -1.9591307
6 -0.16256652]
Round8551-------squared error: 3.9131 parameter: [18.398       0.67473036 -1.9591309
9 -0.16256648]
Round8552-------squared error: 3.9131 parameter: [18.398       0.67473011 -1.9591312
2 -0.16256644]
Round8553-------squared error: 3.9131 parameter: [18.398       0.67472985 -1.9591314
6 -0.1625664 ]
Round8554-------squared error: 3.9131 parameter: [18.398       0.67472959 -1.9591316
9 -0.16256636]
Round8555-------squared error: 3.9131 parameter: [18.398       0.67472934 -1.9591319
2 -0.16256632]
Round8556-------squared error: 3.9131 parameter: [18.398       0.67472908 -1.9591321
5 -0.16256628]
Round8557-------squared error: 3.9131 parameter: [18.398       0.67472883 -1.9591323
8 -0.16256624]
Round8558-------squared error: 3.9131 parameter: [18.398       0.67472857 -1.9591326
1 -0.16256621]
Round8559-------squared error: 3.9131 parameter: [18.398       0.67472832 -1.9591328
4 -0.16256617]
Round8560-------squared error: 3.9131 parameter: [18.398       0.67472806 -1.9591330
7 -0.16256613]
Round8561-------squared error: 3.9131 parameter: [18.398       0.67472781 -1.9591333
-0.16256609]
Round8562-------squared error: 3.9131 parameter: [18.398       0.67472756 -1.9591335
3 -0.16256605]
Round8563-------squared error: 3.9131 parameter: [18.398       0.6747273  -1.9591337
6 -0.16256601]
Round8564-------squared error: 3.9131 parameter: [18.398       0.67472705 -1.9591339
9 -0.16256597]
Round8565-------squared error: 3.9131 parameter: [18.398       0.67472679 -1.9591342
2 -0.16256593]
Round8566-------squared error: 3.9131 parameter: [18.398       0.67472654 -1.9591344
5 -0.1625659 ]
Round8567-------squared error: 3.9131 parameter: [18.398       0.67472629 -1.9591346
8 -0.16256586]
Round8568-------squared error: 3.9131 parameter: [18.398       0.67472604 -1.9591349
1 -0.16256582]
Round8569-------squared error: 3.9131 parameter: [18.398       0.67472578 -1.9591351
4 -0.16256578]
Round8570-------squared error: 3.9131 parameter: [18.398       0.67472553 -1.9591353
7 -0.16256574]
Round8571-------squared error: 3.9131 parameter: [18.398       0.67472528 -1.9591356
-0.1625657 ]
Round8572-------squared error: 3.9131 parameter: [18.398       0.67472503 -1.9591358
2 -0.16256566]
Round8573-------squared error: 3.9131 parameter: [18.398       0.67472478 -1.9591360
5 -0.16256563]
Round8574-------squared error: 3.9131 parameter: [18.398       0.67472453 -1.9591362
8 -0.16256559]
Round8575-------squared error: 3.9131 parameter: [18.398       0.67472427 -1.9591365
-0.16256555]
Round8576-------squared error: 3.9131 parameter: [18.398       0.67472402 -1.9591367
3 -0.16256551]
```

```
Round8577-------squared error: 3.9131 parameter: [18.398       0.67472377 -1.9591369
6 -0.16256547]
Round8578-------squared error: 3.9131 parameter: [18.398       0.67472352 -1.9591371
9 -0.16256543]
Round8579-------squared error: 3.9131 parameter: [18.398       0.67472327 -1.9591374
1 -0.1625654 ]
Round8580-------squared error: 3.9131 parameter: [18.398       0.67472302 -1.9591376
4 -0.16256536]
Round8581-------squared error: 3.9131 parameter: [18.398       0.67472277 -1.9591378
6 -0.16256532]
Round8582-------squared error: 3.9131 parameter: [18.398       0.67472252 -1.9591380
9 -0.16256528]
Round8583-------squared error: 3.9131 parameter: [18.398       0.67472228 -1.9591383
1 -0.16256524]
Round8584-------squared error: 3.9131 parameter: [18.398       0.67472203 -1.9591385
4 -0.16256521]
Round8585-------squared error: 3.9131 parameter: [18.398       0.67472178 -1.9591387
6 -0.16256517]
Round8586-------squared error: 3.9131 parameter: [18.398       0.67472153 -1.9591389
9 -0.16256513]
Round8587-------squared error: 3.9131 parameter: [18.398       0.67472128 -1.9591392
1 -0.16256509]
Round8588-------squared error: 3.9131 parameter: [18.398       0.67472103 -1.9591394
4 -0.16256505]
Round8589-------squared error: 3.9131 parameter: [18.398       0.67472079 -1.9591396
6 -0.16256502]
Round8590-------squared error: 3.9131 parameter: [18.398       0.67472054 -1.9591398
9 -0.16256498]
Round8591-------squared error: 3.9131 parameter: [18.398       0.67472029 -1.9591401
1 -0.16256494]
Round8592-------squared error: 3.9131 parameter: [18.398       0.67472005 -1.9591403
3 -0.1625649 ]
Round8593-------squared error: 3.9131 parameter: [18.398       0.6747198  -1.9591405
6 -0.16256487]
Round8594-------squared error: 3.9131 parameter: [18.398       0.67471955 -1.9591407
8 -0.16256483]
Round8595-------squared error: 3.9131 parameter: [18.398       0.67471931 -1.959141
-0.16256479]
Round8596-------squared error: 3.9131 parameter: [18.398       0.67471906 -1.9591412
3 -0.16256475]
Round8597-------squared error: 3.9131 parameter: [18.398       0.67471881 -1.9591414
5 -0.16256472]
Round8598-------squared error: 3.9131 parameter: [18.398       0.67471857 -1.9591416
7 -0.16256468]
Round8599-------squared error: 3.9131 parameter: [18.398       0.67471832 -1.9591418
9 -0.16256464]
Round8600-------squared error: 3.9131 parameter: [18.398       0.67471808 -1.9591421
1 -0.1625646 ]
Round8601-------squared error: 3.9131 parameter: [18.398       0.67471783 -1.9591423
3 -0.16256457]
Round8602-------squared error: 3.9131 parameter: [18.398       0.67471759 -1.9591425
6 -0.16256453]
Round8603-------squared error: 3.9131 parameter: [18.398       0.67471735 -1.9591427
8 -0.16256449]
Round8604-------squared error: 3.9131 parameter: [18.398       0.6747171  -1.959143
-0.16256445]
Round8605-------squared error: 3.9131 parameter: [18.398       0.67471686 -1.9591432
2 -0.16256442]
Round8606-------squared error: 3.9131 parameter: [18.398       0.67471661 -1.9591434
4 -0.16256438]
Round8607-------squared error: 3.9131 parameter: [18.398       0.67471637 -1.9591436
6 -0.16256434]
Round8608-------squared error: 3.9131 parameter: [18.398       0.67471613 -1.9591438
8 -0.1625643 ]
```

```
Round8609-------squared error: 3.9131 parameter: [18.398       0.67471589 -1.9591441
-0.16256427]
Round8610-------squared error: 3.9131 parameter: [18.398       0.67471564 -1.9591443
2 -0.16256423]
Round8611-------squared error: 3.9131 parameter: [18.398       0.6747154  -1.9591445
4 -0.16256419]
Round8612-------squared error: 3.9131 parameter: [18.398       0.67471516 -1.9591447
6 -0.16256416]
Round8613-------squared error: 3.9131 parameter: [18.398       0.67471492 -1.9591449
8 -0.16256412]
Round8614-------squared error: 3.9131 parameter: [18.398       0.67471467 -1.9591452
-0.16256408]
Round8615-------squared error: 3.9131 parameter: [18.398       0.67471443 -1.9591454
1 -0.16256405]
Round8616-------squared error: 3.9131 parameter: [18.398       0.67471419 -1.9591456
3 -0.16256401]
Round8617-------squared error: 3.9131 parameter: [18.398       0.67471395 -1.9591458
5 -0.16256397]
Round8618-------squared error: 3.9131 parameter: [18.398       0.67471371 -1.9591460
7 -0.16256394]
Round8619-------squared error: 3.9131 parameter: [18.398       0.67471347 -1.9591462
9 -0.1625639 ]
Round8620-------squared error: 3.9131 parameter: [18.398       0.67471323 -1.9591465
-0.16256386]
Round8621-------squared error: 3.9131 parameter: [18.398       0.67471299 -1.9591467
2 -0.16256383]
Round8622-------squared error: 3.9131 parameter: [18.398       0.67471275 -1.9591469
4 -0.16256379]
Round8623-------squared error: 3.9131 parameter: [18.398       0.67471251 -1.9591471
6 -0.16256375]
Round8624-------squared error: 3.9131 parameter: [18.398       0.67471227 -1.9591473
7 -0.16256372]
Round8625-------squared error: 3.9131 parameter: [18.398       0.67471203 -1.9591475
9 -0.16256368]
Round8626-------squared error: 3.9131 parameter: [18.398       0.67471179 -1.9591478
-0.16256364]
Round8627-------squared error: 3.9131 parameter: [18.398       0.67471155 -1.9591480
2 -0.16256361]
Round8628-------squared error: 3.9131 parameter: [18.398       0.67471132 -1.9591482
4 -0.16256357]
Round8629-------squared error: 3.9131 parameter: [18.398       0.67471108 -1.9591484
5 -0.16256353]
Round8630-------squared error: 3.9131 parameter: [18.398       0.67471084 -1.9591486
7 -0.1625635 ]
Round8631-------squared error: 3.9131 parameter: [18.398       0.6747106  -1.9591488
8 -0.16256346]
Round8632-------squared error: 3.9131 parameter: [18.398       0.67471036 -1.9591491
-0.16256342]
Round8633-------squared error: 3.9131 parameter: [18.398       0.67471013 -1.9591493
1 -0.16256339]
Round8634-------squared error: 3.9131 parameter: [18.398       0.67470989 -1.9591495
3 -0.16256335]
Round8635-------squared error: 3.9131 parameter: [18.398       0.67470965 -1.9591497
4 -0.16256332]
Round8636-------squared error: 3.9131 parameter: [18.398       0.67470942 -1.9591499
6 -0.16256328]
Round8637-------squared error: 3.9131 parameter: [18.398       0.67470918 -1.9591501
7 -0.16256324]
Round8638-------squared error: 3.9131 parameter: [18.398       0.67470894 -1.9591503
8 -0.16256321]
Round8639-------squared error: 3.9131 parameter: [18.398       0.67470871 -1.9591506
-0.16256317]
Round8640-------squared error: 3.9131 parameter: [18.398       0.67470847 -1.9591508
1 -0.16256314]
```

```
Round8641-------squared error: 3.9131 parameter: [18.398       0.67470824 -1.9591510
2 -0.1625631 ]
Round8642-------squared error: 3.9131 parameter: [18.398       0.674708   -1.9591512
4 -0.16256306]
Round8643-------squared error: 3.9131 parameter: [18.398       0.67470777 -1.9591514
5 -0.16256303]
Round8644-------squared error: 3.9131 parameter: [18.398       0.67470753 -1.9591516
6 -0.16256299]
Round8645-------squared error: 3.9131 parameter: [18.398       0.6747073  -1.9591518
7 -0.16256296]
Round8646-------squared error: 3.9131 parameter: [18.398       0.67470706 -1.9591520
9 -0.16256292]
Round8647-------squared error: 3.9131 parameter: [18.398       0.67470683 -1.9591523
-0.16256288]
Round8648-------squared error: 3.9131 parameter: [18.398       0.67470659 -1.9591525
1 -0.16256285]
Round8649-------squared error: 3.9131 parameter: [18.398       0.67470636 -1.9591527
2 -0.16256281]
Round8650-------squared error: 3.9131 parameter: [18.398       0.67470613 -1.9591529
3 -0.16256278]
Round8651-------squared error: 3.9131 parameter: [18.398       0.67470589 -1.9591531
4 -0.16256274]
Round8652-------squared error: 3.9131 parameter: [18.398       0.67470566 -1.9591533
6 -0.16256271]
Round8653-------squared error: 3.9131 parameter: [18.398       0.67470543 -1.9591535
7 -0.16256267]
Round8654-------squared error: 3.9131 parameter: [18.398       0.6747052  -1.9591537
8 -0.16256263]
Round8655-------squared error: 3.9131 parameter: [18.398       0.67470496 -1.9591539
9 -0.1625626 ]
Round8656-------squared error: 3.9131 parameter: [18.398       0.67470473 -1.9591542
-0.16256256]
Round8657-------squared error: 3.9131 parameter: [18.398       0.6747045  -1.9591544
1 -0.16256253]
Round8658-------squared error: 3.9131 parameter: [18.398       0.67470427 -1.9591546
2 -0.16256249]
Round8659-------squared error: 3.9131 parameter: [18.398       0.67470404 -1.9591548
3 -0.16256246]
Round8660-------squared error: 3.9131 parameter: [18.398       0.67470381 -1.9591550
4 -0.16256242]
Round8661-------squared error: 3.9131 parameter: [18.398       0.67470357 -1.9591552
4 -0.16256239]
Round8662-------squared error: 3.9131 parameter: [18.398       0.67470334 -1.9591554
5 -0.16256235]
Round8663-------squared error: 3.9131 parameter: [18.398       0.67470311 -1.9591556
6 -0.16256232]
Round8664-------squared error: 3.9131 parameter: [18.398       0.67470288 -1.9591558
7 -0.16256228]
Round8665-------squared error: 3.9131 parameter: [18.398       0.67470265 -1.9591560
8 -0.16256225]
Round8666-------squared error: 3.9131 parameter: [18.398       0.67470242 -1.9591562
9 -0.16256221]
Round8667-------squared error: 3.9131 parameter: [18.398       0.67470219 -1.9591564
9 -0.16256218]
Round8668-------squared error: 3.9131 parameter: [18.398       0.67470196 -1.9591567
-0.16256214]
Round8669-------squared error: 3.9131 parameter: [18.398       0.67470174 -1.9591569
1 -0.16256211]
Round8670-------squared error: 3.9131 parameter: [18.398       0.67470151 -1.9591571
2 -0.16256207]
Round8671-------squared error: 3.9131 parameter: [18.398       0.67470128 -1.9591573
2 -0.16256204]
Round8672-------squared error: 3.9131 parameter: [18.398       0.67470105 -1.9591575
3 -0.162562  ]
```

```
Round8673-------squared error: 3.9131 parameter: [18.398       0.67470082 -1.9591577
4 -0.16256197]
Round8674-------squared error: 3.9131 parameter: [18.398       0.67470059 -1.9591579
4 -0.16256193]
Round8675-------squared error: 3.9131 parameter: [18.398       0.67470036 -1.9591581
5 -0.1625619 ]
Round8676-------squared error: 3.9131 parameter: [18.398       0.67470014 -1.9591583
6 -0.16256186]
Round8677-------squared error: 3.9131 parameter: [18.398       0.67469991 -1.9591585
6 -0.16256183]
Round8678-------squared error: 3.9131 parameter: [18.398       0.67469968 -1.9591587
7 -0.16256179]
Round8679-------squared error: 3.9131 parameter: [18.398       0.67469946 -1.9591589
7 -0.16256176]
Round8680-------squared error: 3.9131 parameter: [18.398       0.67469923 -1.9591591
8 -0.16256172]
Round8681-------squared error: 3.9131 parameter: [18.398       0.674699   -1.9591593
8 -0.16256169]
Round8682-------squared error: 3.9131 parameter: [18.398       0.67469878 -1.9591595
9 -0.16256165]
Round8683-------squared error: 3.9131 parameter: [18.398       0.67469855 -1.9591597
9 -0.16256162]
Round8684-------squared error: 3.9131 parameter: [18.398       0.67469832 -1.95916
-0.16256159]
Round8685-------squared error: 3.9131 parameter: [18.398       0.6746981  -1.9591602
-0.16256155]
Round8686-------squared error: 3.9131 parameter: [18.398       0.67469787 -1.9591604
1 -0.16256152]
Round8687-------squared error: 3.9131 parameter: [18.398       0.67469765 -1.9591606
1 -0.16256148]
Round8688-------squared error: 3.9131 parameter: [18.398       0.67469742 -1.9591608
1 -0.16256145]
Round8689-------squared error: 3.9131 parameter: [18.398       0.6746972  -1.9591610
2 -0.16256141]
Round8690-------squared error: 3.9131 parameter: [18.398       0.67469697 -1.9591612
2 -0.16256138]
Round8691-------squared error: 3.9131 parameter: [18.398       0.67469675 -1.9591614
2 -0.16256134]
Round8692-------squared error: 3.9131 parameter: [18.398       0.67469652 -1.9591616
3 -0.16256131]
Round8693-------squared error: 3.9131 parameter: [18.398       0.6746963  -1.9591618
3 -0.16256128]
Round8694-------squared error: 3.9131 parameter: [18.398       0.67469608 -1.9591620
3 -0.16256124]
Round8695-------squared error: 3.9131 parameter: [18.398       0.67469585 -1.9591622
4 -0.16256121]
Round8696-------squared error: 3.9131 parameter: [18.398       0.67469563 -1.9591624
4 -0.16256117]
Round8697-------squared error: 3.9131 parameter: [18.398       0.67469541 -1.9591626
4 -0.16256114]
Round8698-------squared error: 3.9131 parameter: [18.398       0.67469518 -1.9591628
4 -0.16256111]
Round8699-------squared error: 3.9131 parameter: [18.398       0.67469496 -1.9591630
4 -0.16256107]
Round8700-------squared error: 3.9131 parameter: [18.398       0.67469474 -1.9591632
4 -0.16256104]
Round8701-------squared error: 3.9131 parameter: [18.398       0.67469452 -1.9591634
5 -0.162561  ]
Round8702-------squared error: 3.9131 parameter: [18.398       0.67469429 -1.9591636
5 -0.16256097]
Round8703-------squared error: 3.9131 parameter: [18.398       0.67469407 -1.9591638
5 -0.16256094]
Round8704-------squared error: 3.9131 parameter: [18.398       0.67469385 -1.9591640
5 -0.1625609 ]
```

```
Round8705-------squared error: 3.9131 parameter: [18.398       0.67469363 -1.9591642
5 -0.16256087]
Round8706-------squared error: 3.9131 parameter: [18.398       0.67469341 -1.9591644
5 -0.16256083]
Round8707-------squared error: 3.9131 parameter: [18.398       0.67469319 -1.9591646
5 -0.1625608 ]
Round8708-------squared error: 3.9131 parameter: [18.398       0.67469297 -1.9591648
5 -0.16256077]
Round8709-------squared error: 3.9131 parameter: [18.398       0.67469275 -1.9591650
5 -0.16256073]
Round8710-------squared error: 3.9131 parameter: [18.398       0.67469253 -1.9591652
5 -0.1625607 ]
Round8711-------squared error: 3.9131 parameter: [18.398       0.67469231 -1.9591654
5 -0.16256067]
Round8712-------squared error: 3.9131 parameter: [18.398       0.67469209 -1.9591656
5 -0.16256063]
Round8713-------squared error: 3.9131 parameter: [18.398       0.67469187 -1.9591658
4 -0.1625606 ]
Round8714-------squared error: 3.9131 parameter: [18.398       0.67469165 -1.9591660
4 -0.16256057]
Round8715-------squared error: 3.9131 parameter: [18.398       0.67469143 -1.9591662
4 -0.16256053]
Round8716-------squared error: 3.9131 parameter: [18.398       0.67469121 -1.9591664
4 -0.1625605 ]
Round8717-------squared error: 3.9131 parameter: [18.398       0.67469099 -1.9591666
4 -0.16256046]
Round8718-------squared error: 3.9131 parameter: [18.398       0.67469077 -1.9591668
4 -0.16256043]
Round8719-------squared error: 3.9131 parameter: [18.398       0.67469055 -1.9591670
3 -0.1625604 ]
Round8720-------squared error: 3.9131 parameter: [18.398       0.67469033 -1.9591672
3 -0.16256036]
Round8721-------squared error: 3.9131 parameter: [18.398       0.67469012 -1.9591674
3 -0.16256033]
Round8722-------squared error: 3.9131 parameter: [18.398       0.6746899  -1.9591676
3 -0.1625603 ]
Round8723-------squared error: 3.9131 parameter: [18.398       0.67468968 -1.9591678
2 -0.16256026]
Round8724-------squared error: 3.9131 parameter: [18.398       0.67468946 -1.9591680
2 -0.16256023]
Round8725-------squared error: 3.9131 parameter: [18.398       0.67468925 -1.9591682
2 -0.1625602 ]
Round8726-------squared error: 3.9131 parameter: [18.398       0.67468903 -1.9591684
1 -0.16256017]
Round8727-------squared error: 3.9131 parameter: [18.398       0.67468881 -1.9591686
1 -0.16256013]
Round8728-------squared error: 3.9131 parameter: [18.398      0.6746886 -1.9591688 -
0.1625601]
Round8729-------squared error: 3.9131 parameter: [18.398       0.67468838 -1.959169
-0.16256007]
Round8730-------squared error: 3.9131 parameter: [18.398       0.67468816 -1.9591692
-0.16256003]
Round8731-------squared error: 3.9131 parameter: [18.398       0.67468795 -1.9591693
9 -0.16256   ]
Round8732-------squared error: 3.9131 parameter: [18.398       0.67468773 -1.9591695
9 -0.16255997]
Round8733-------squared error: 3.9131 parameter: [18.398       0.67468752 -1.9591697
8 -0.16255993]
Round8734-------squared error: 3.9131 parameter: [18.398       0.6746873  -1.9591699
8 -0.1625599 ]
Round8735-------squared error: 3.9131 parameter: [18.398       0.67468709 -1.9591701
7 -0.16255987]
Round8736-------squared error: 3.9131 parameter: [18.398       0.67468687 -1.9591703
7 -0.16255984]
```

```
Round8737-------squared error: 3.9131 parameter: [18.398       0.67468666 -1.9591705
6 -0.1625598 ]
Round8738-------squared error: 3.9131 parameter: [18.398       0.67468644 -1.9591707
5 -0.16255977]
Round8739-------squared error: 3.9131 parameter: [18.398       0.67468623 -1.9591709
5 -0.16255974]
Round8740-------squared error: 3.9131 parameter: [18.398       0.67468601 -1.9591711
4 -0.1625597 ]
Round8741-------squared error: 3.9131 parameter: [18.398       0.6746858  -1.9591713
4 -0.16255967]
Round8742-------squared error: 3.9131 parameter: [18.398       0.67468559 -1.9591715
3 -0.16255964]
Round8743-------squared error: 3.9131 parameter: [18.398       0.67468537 -1.9591717
2 -0.16255961]
Round8744-------squared error: 3.9131 parameter: [18.398       0.67468516 -1.9591719
2 -0.16255957]
Round8745-------squared error: 3.9131 parameter: [18.398       0.67468495 -1.9591721
1 -0.16255954]
Round8746-------squared error: 3.9131 parameter: [18.398       0.67468473 -1.9591723
-0.16255951]
Round8747-------squared error: 3.9131 parameter: [18.398       0.67468452 -1.9591724
9 -0.16255948]
Round8748-------squared error: 3.9131 parameter: [18.398       0.67468431 -1.9591726
9 -0.16255944]
Round8749-------squared error: 3.9131 parameter: [18.398       0.6746841  -1.9591728
8 -0.16255941]
Round8750-------squared error: 3.9131 parameter: [18.398       0.67468388 -1.9591730
7 -0.16255938]
Round8751-------squared error: 3.9131 parameter: [18.398       0.67468367 -1.9591732
6 -0.16255935]
Round8752-------squared error: 3.9131 parameter: [18.398       0.67468346 -1.9591734
5 -0.16255931]
Round8753-------squared error: 3.9131 parameter: [18.398       0.67468325 -1.9591736
4 -0.16255928]
Round8754-------squared error: 3.9131 parameter: [18.398       0.67468304 -1.9591738
4 -0.16255925]
Round8755-------squared error: 3.9131 parameter: [18.398       0.67468283 -1.9591740
3 -0.16255922]
Round8756-------squared error: 3.9131 parameter: [18.398       0.67468262 -1.9591742
2 -0.16255919]
Round8757-------squared error: 3.9131 parameter: [18.398       0.67468241 -1.9591744
1 -0.16255915]
Round8758-------squared error: 3.9131 parameter: [18.398       0.6746822  -1.9591746
-0.16255912]
Round8759-------squared error: 3.9131 parameter: [18.398       0.67468199 -1.9591747
9 -0.16255909]
Round8760-------squared error: 3.9131 parameter: [18.398       0.67468178 -1.9591749
8 -0.16255906]
Round8761-------squared error: 3.9131 parameter: [18.398       0.67468157 -1.9591751
7 -0.16255903]
Round8762-------squared error: 3.9131 parameter: [18.398       0.67468136 -1.9591753
6 -0.16255899]
Round8763-------squared error: 3.9131 parameter: [18.398       0.67468115 -1.9591755
5 -0.16255896]
Round8764-------squared error: 3.9131 parameter: [18.398       0.67468094 -1.9591757
4 -0.16255893]
Round8765-------squared error: 3.9131 parameter: [18.398       0.67468073 -1.9591759
3 -0.1625589 ]
Round8766-------squared error: 3.9131 parameter: [18.398       0.67468052 -1.9591761
2 -0.16255887]
Round8767-------squared error: 3.9131 parameter: [18.398       0.67468031 -1.9591763
-0.16255883]
Round8768-------squared error: 3.9131 parameter: [18.398       0.6746801  -1.9591764
9 -0.1625588 ]
```

```
Round8769-------squared error: 3.9131 parameter: [18.398       0.6746799  -1.9591766
8 -0.16255877]
Round8770-------squared error: 3.9131 parameter: [18.398       0.67467969 -1.9591768
7 -0.16255874]
Round8771-------squared error: 3.9131 parameter: [18.398       0.67467948 -1.9591770
6 -0.16255871]
Round8772-------squared error: 3.9131 parameter: [18.398       0.67467927 -1.9591772
5 -0.16255867]
Round8773-------squared error: 3.9131 parameter: [18.398       0.67467906 -1.9591774
3 -0.16255864]
Round8774-------squared error: 3.9131 parameter: [18.398       0.67467886 -1.9591776
2 -0.16255861]
Round8775-------squared error: 3.9131 parameter: [18.398       0.67467865 -1.9591778
1 -0.16255858]
Round8776-------squared error: 3.9131 parameter: [18.398       0.67467844 -1.959178
-0.16255855]
Round8777-------squared error: 3.9131 parameter: [18.398       0.67467824 -1.9591781
8 -0.16255852]
Round8778-------squared error: 3.9131 parameter: [18.398       0.67467803 -1.9591783
7 -0.16255849]
Round8779-------squared error: 3.9131 parameter: [18.398       0.67467782 -1.9591785
6 -0.16255845]
Round8780-------squared error: 3.9131 parameter: [18.398       0.67467762 -1.9591787
4 -0.16255842]
Round8781-------squared error: 3.9131 parameter: [18.398       0.67467741 -1.9591789
3 -0.16255839]
Round8782-------squared error: 3.9131 parameter: [18.398       0.67467721 -1.9591791
1 -0.16255836]
Round8783-------squared error: 3.9131 parameter: [18.398       0.674677   -1.9591793
-0.16255833]
Round8784-------squared error: 3.9131 parameter: [18.398       0.6746768  -1.9591794
9 -0.1625583 ]
Round8785-------squared error: 3.9131 parameter: [18.398       0.67467659 -1.9591796
7 -0.16255827]
Round8786-------squared error: 3.9131 parameter: [18.398       0.67467639 -1.9591798
6 -0.16255823]
Round8787-------squared error: 3.9131 parameter: [18.398       0.67467618 -1.9591800
4 -0.1625582 ]
Round8788-------squared error: 3.9131 parameter: [18.398       0.67467598 -1.9591802
3 -0.16255817]
Round8789-------squared error: 3.9131 parameter: [18.398       0.67467577 -1.9591804
1 -0.16255814]
Round8790-------squared error: 3.9131 parameter: [18.398       0.67467557 -1.9591806
-0.16255811]
Round8791-------squared error: 3.9131 parameter: [18.398       0.67467537 -1.9591807
8 -0.16255808]
Round8792-------squared error: 3.9131 parameter: [18.398       0.67467516 -1.9591809
7 -0.16255805]
Round8793-------squared error: 3.9131 parameter: [18.398       0.67467496 -1.9591811
5 -0.16255802]
Round8794-------squared error: 3.9131 parameter: [18.398       0.67467476 -1.9591813
3 -0.16255799]
Round8795-------squared error: 3.9131 parameter: [18.398       0.67467455 -1.9591815
2 -0.16255795]
Round8796-------squared error: 3.9131 parameter: [18.398       0.67467435 -1.9591817
-0.16255792]
Round8797-------squared error: 3.9131 parameter: [18.398       0.67467415 -1.9591818
8 -0.16255789]
Round8798-------squared error: 3.9131 parameter: [18.398       0.67467395 -1.9591820
7 -0.16255786]
Round8799-------squared error: 3.9131 parameter: [18.398       0.67467374 -1.9591822
5 -0.16255783]
Round8800-------squared error: 3.9131 parameter: [18.398       0.67467354 -1.9591824
3 -0.1625578 ]
```

```
Round8801-------squared error: 3.9131 parameter: [18.398       0.67467334 -1.9591826
2 -0.16255777]
Round8802-------squared error: 3.9131 parameter: [18.398       0.67467314 -1.9591828
-0.16255774]
Round8803-------squared error: 3.9131 parameter: [18.398       0.67467294 -1.9591829
8 -0.16255771]
Round8804-------squared error: 3.9131 parameter: [18.398       0.67467274 -1.9591831
6 -0.16255768]
Round8805-------squared error: 3.9131 parameter: [18.398       0.67467253 -1.9591833
5 -0.16255765]
Round8806-------squared error: 3.9131 parameter: [18.398       0.67467233 -1.9591835
3 -0.16255761]
Round8807-------squared error: 3.9131 parameter: [18.398       0.67467213 -1.9591837
1 -0.16255758]
Round8808-------squared error: 3.9131 parameter: [18.398       0.67467193 -1.9591838
9 -0.16255755]
Round8809-------squared error: 3.9131 parameter: [18.398       0.67467173 -1.9591840
7 -0.16255752]
Round8810-------squared error: 3.9131 parameter: [18.398       0.67467153 -1.9591842
5 -0.16255749]
Round8811-------squared error: 3.9131 parameter: [18.398       0.67467133 -1.9591844
3 -0.16255746]
Round8812-------squared error: 3.9131 parameter: [18.398       0.67467113 -1.9591846
1 -0.16255743]
Round8813-------squared error: 3.9131 parameter: [18.398       0.67467093 -1.9591848
-0.1625574 ]
Round8814-------squared error: 3.9131 parameter: [18.398       0.67467073 -1.9591849
8 -0.16255737]
Round8815-------squared error: 3.9131 parameter: [18.398       0.67467053 -1.9591851
6 -0.16255734]
Round8816-------squared error: 3.9131 parameter: [18.398       0.67467034 -1.9591853
4 -0.16255731]
Round8817-------squared error: 3.9131 parameter: [18.398       0.67467014 -1.9591855
2 -0.16255728]
Round8818-------squared error: 3.9131 parameter: [18.398       0.67466994 -1.9591857
-0.16255725]
Round8819-------squared error: 3.9131 parameter: [18.398       0.67466974 -1.9591858
8 -0.16255722]
Round8820-------squared error: 3.9131 parameter: [18.398       0.67466954 -1.9591860
5 -0.16255719]
Round8821-------squared error: 3.9131 parameter: [18.398       0.67466934 -1.9591862
3 -0.16255716]
Round8822-------squared error: 3.9131 parameter: [18.398       0.67466915 -1.9591864
1 -0.16255713]
Round8823-------squared error: 3.9131 parameter: [18.398       0.67466895 -1.9591865
9 -0.1625571 ]
Round8824-------squared error: 3.9131 parameter: [18.398       0.67466875 -1.9591867
7 -0.16255707]
Round8825-------squared error: 3.9131 parameter: [18.398       0.67466855 -1.9591869
5 -0.16255704]
Round8826-------squared error: 3.9131 parameter: [18.398       0.67466836 -1.9591871
3 -0.16255701]
Round8827-------squared error: 3.9131 parameter: [18.398       0.67466816 -1.9591873
1 -0.16255698]
Round8828-------squared error: 3.9131 parameter: [18.398       0.67466796 -1.9591874
8 -0.16255695]
Round8829-------squared error: 3.9131 parameter: [18.398       0.67466777 -1.9591876
6 -0.16255692]
Round8830-------squared error: 3.9131 parameter: [18.398       0.67466757 -1.9591878
4 -0.16255689]
Round8831-------squared error: 3.9131 parameter: [18.398       0.67466737 -1.9591880
2 -0.16255686]
Round8832-------squared error: 3.9131 parameter: [18.398       0.67466718 -1.9591881
9 -0.16255683]
```

```
Round8833-------squared error: 3.9131 parameter: [18.398       0.67466698 -1.9591883
7 -0.1625568 ]
Round8834-------squared error: 3.9131 parameter: [18.398       0.67466679 -1.9591885
5 -0.16255677]
Round8835-------squared error: 3.9131 parameter: [18.398       0.67466659 -1.9591887
3 -0.16255674]
Round8836-------squared error: 3.9131 parameter: [18.398       0.6746664  -1.9591889
-0.16255671]
Round8837-------squared error: 3.9131 parameter: [18.398       0.6746662  -1.9591890
8 -0.16255668]
Round8838-------squared error: 3.9131 parameter: [18.398       0.67466601 -1.9591892
5 -0.16255665]
Round8839-------squared error: 3.9131 parameter: [18.398       0.67466581 -1.9591894
3 -0.16255662]
Round8840-------squared error: 3.9131 parameter: [18.398       0.67466562 -1.9591896
1 -0.16255659]
Round8841-------squared error: 3.9131 parameter: [18.398       0.67466542 -1.9591897
8 -0.16255656]
Round8842-------squared error: 3.9131 parameter: [18.398       0.67466523 -1.9591899
6 -0.16255653]
Round8843-------squared error: 3.9131 parameter: [18.398       0.67466504 -1.9591901
3 -0.1625565 ]
Round8844-------squared error: 3.9131 parameter: [18.398       0.67466484 -1.9591903
1 -0.16255647]
Round8845-------squared error: 3.9131 parameter: [18.398       0.67466465 -1.9591904
8 -0.16255644]
Round8846-------squared error: 3.9131 parameter: [18.398       0.67466446 -1.9591906
6 -0.16255641]
Round8847-------squared error: 3.9131 parameter: [18.398       0.67466426 -1.9591908
3 -0.16255638]
Round8848-------squared error: 3.9131 parameter: [18.398       0.67466407 -1.9591910
1 -0.16255635]
Round8849-------squared error: 3.9131 parameter: [18.398       0.67466388 -1.9591911
8 -0.16255632]
Round8850-------squared error: 3.9131 parameter: [18.398       0.67466368 -1.9591913
6 -0.16255629]
Round8851-------squared error: 3.9131 parameter: [18.398       0.67466349 -1.9591915
3 -0.16255626]
Round8852-------squared error: 3.9131 parameter: [18.398       0.6746633  -1.9591917
1 -0.16255624]
Round8853-------squared error: 3.9131 parameter: [18.398       0.67466311 -1.9591918
8 -0.16255621]
Round8854-------squared error: 3.9131 parameter: [18.398       0.67466292 -1.9591920
5 -0.16255618]
Round8855-------squared error: 3.9131 parameter: [18.398       0.67466272 -1.9591922
3 -0.16255615]
Round8856-------squared error: 3.9131 parameter: [18.398       0.67466253 -1.9591924
-0.16255612]
Round8857-------squared error: 3.9131 parameter: [18.398       0.67466234 -1.9591925
7 -0.16255609]
Round8858-------squared error: 3.9131 parameter: [18.398       0.67466215 -1.9591927
5 -0.16255606]
Round8859-------squared error: 3.9131 parameter: [18.398       0.67466196 -1.9591929
2 -0.16255603]
Round8860-------squared error: 3.9131 parameter: [18.398       0.67466177 -1.9591930
9 -0.162556  ]
Round8861-------squared error: 3.9131 parameter: [18.398       0.67466158 -1.9591932
6 -0.16255597]
Round8862-------squared error: 3.9131 parameter: [18.398       0.67466139 -1.9591934
4 -0.16255594]
Round8863-------squared error: 3.9131 parameter: [18.398       0.6746612  -1.9591936
1 -0.16255591]
Round8864-------squared error: 3.9131 parameter: [18.398       0.67466101 -1.9591937
8 -0.16255589]
```

```
Round8865-------squared error: 3.9131 parameter: [18.398       0.67466082 -1.9591939
5 -0.16255586]
Round8866-------squared error: 3.9131 parameter: [18.398       0.67466063 -1.9591941
2 -0.16255583]
Round8867-------squared error: 3.9131 parameter: [18.398       0.67466044 -1.9591942
9 -0.1625558 ]
Round8868-------squared error: 3.9131 parameter: [18.398       0.67466025 -1.9591944
7 -0.16255577]
Round8869-------squared error: 3.9131 parameter: [18.398       0.67466006 -1.9591946
4 -0.16255574]
Round8870-------squared error: 3.9131 parameter: [18.398       0.67465987 -1.9591948
1 -0.16255571]
Round8871-------squared error: 3.9131 parameter: [18.398       0.67465968 -1.9591949
8 -0.16255568]
Round8872-------squared error: 3.9131 parameter: [18.398       0.6746595  -1.9591951
5 -0.16255565]
Round8873-------squared error: 3.9131 parameter: [18.398       0.67465931 -1.9591953
2 -0.16255563]
Round8874-------squared error: 3.9131 parameter: [18.398       0.67465912 -1.9591954
9 -0.1625556 ]
Round8875-------squared error: 3.9131 parameter: [18.398       0.67465893 -1.9591956
6 -0.16255557]
Round8876-------squared error: 3.9131 parameter: [18.398       0.67465874 -1.9591958
3 -0.16255554]
Round8877-------squared error: 3.9131 parameter: [18.398       0.67465856 -1.959196
-0.16255551]
Round8878-------squared error: 3.9131 parameter: [18.398       0.67465837 -1.9591961
7 -0.16255548]
Round8879-------squared error: 3.9131 parameter: [18.398       0.67465818 -1.9591963
4 -0.16255545]
Round8880-------squared error: 3.9131 parameter: [18.398       0.67465799 -1.9591965
1 -0.16255542]
Round8881-------squared error: 3.9131 parameter: [18.398       0.67465781 -1.9591966
8 -0.1625554 ]
Round8882-------squared error: 3.9131 parameter: [18.398       0.67465762 -1.9591968
5 -0.16255537]
Round8883-------squared error: 3.9131 parameter: [18.398       0.67465743 -1.9591970
2 -0.16255534]
Round8884-------squared error: 3.9131 parameter: [18.398       0.67465725 -1.9591971
8 -0.16255531]
Round8885-------squared error: 3.9131 parameter: [18.398       0.67465706 -1.9591973
5 -0.16255528]
Round8886-------squared error: 3.9131 parameter: [18.398       0.67465688 -1.9591975
2 -0.16255525]
Round8887-------squared error: 3.9131 parameter: [18.398       0.67465669 -1.9591976
9 -0.16255523]
Round8888-------squared error: 3.9131 parameter: [18.398       0.6746565  -1.9591978
6 -0.1625552 ]
Round8889-------squared error: 3.9131 parameter: [18.398       0.67465632 -1.9591980
3 -0.16255517]
Round8890-------squared error: 3.9131 parameter: [18.398       0.67465613 -1.9591981
9 -0.16255514]
Round8891-------squared error: 3.9131 parameter: [18.398       0.67465595 -1.9591983
6 -0.16255511]
Round8892-------squared error: 3.9131 parameter: [18.398       0.67465576 -1.9591985
3 -0.16255508]
Round8893-------squared error: 3.9131 parameter: [18.398       0.67465558 -1.9591987
-0.16255506]
Round8894-------squared error: 3.9131 parameter: [18.398       0.67465539 -1.9591988
6 -0.16255503]
Round8895-------squared error: 3.9131 parameter: [18.398       0.67465521 -1.9591990
3 -0.162555  ]
Round8896-------squared error: 3.9131 parameter: [18.398       0.67465503 -1.9591992
-0.16255497]
```

```
Round8897-------squared error: 3.9131 parameter: [18.398       0.67465484 -1.9591993
6 -0.16255494]
Round8898-------squared error: 3.9131 parameter: [18.398       0.67465466 -1.9591995
3 -0.16255492]
Round8899-------squared error: 3.9131 parameter: [18.398       0.67465447 -1.9591997
-0.16255489]
Round8900-------squared error: 3.9131 parameter: [18.398       0.67465429 -1.9591998
6 -0.16255486]
Round8901-------squared error: 3.9131 parameter: [18.398       0.67465411 -1.9592000
3 -0.16255483]
Round8902-------squared error: 3.9131 parameter: [18.398       0.67465392 -1.9592001
9 -0.1625548 ]
Round8903-------squared error: 3.9131 parameter: [18.398       0.67465374 -1.9592003
6 -0.16255478]
Round8904-------squared error: 3.9131 parameter: [18.398       0.67465356 -1.9592005
2 -0.16255475]
Round8905-------squared error: 3.9131 parameter: [18.398       0.67465338 -1.9592006
9 -0.16255472]
Round8906-------squared error: 3.9131 parameter: [18.398       0.67465319 -1.9592008
5 -0.16255469]
Round8907-------squared error: 3.9131 parameter: [18.398       0.67465301 -1.9592010
2 -0.16255466]
Round8908-------squared error: 3.9131 parameter: [18.398       0.67465283 -1.9592011
8 -0.16255464]
Round8909-------squared error: 3.9131 parameter: [18.398       0.67465265 -1.9592013
5 -0.16255461]
Round8910-------squared error: 3.9131 parameter: [18.398       0.67465247 -1.9592015
1 -0.16255458]
Round8911-------squared error: 3.9131 parameter: [18.398       0.67465228 -1.9592016
8 -0.16255455]
Round8912-------squared error: 3.9131 parameter: [18.398       0.6746521  -1.9592018
4 -0.16255452]
Round8913-------squared error: 3.9131 parameter: [18.398       0.67465192 -1.9592020
1 -0.1625545 ]
Round8914-------squared error: 3.9131 parameter: [18.398       0.67465174 -1.9592021
7 -0.16255447]
Round8915-------squared error: 3.9131 parameter: [18.398       0.67465156 -1.9592023
3 -0.16255444]
Round8916-------squared error: 3.9131 parameter: [18.398       0.67465138 -1.9592025
-0.16255441]
Round8917-------squared error: 3.9131 parameter: [18.398       0.6746512  -1.9592026
6 -0.16255439]
Round8918-------squared error: 3.9131 parameter: [18.398       0.67465102 -1.9592028
2 -0.16255436]
Round8919-------squared error: 3.9131 parameter: [18.398       0.67465084 -1.9592029
9 -0.16255433]
Round8920-------squared error: 3.9131 parameter: [18.398       0.67465066 -1.9592031
5 -0.1625543 ]
Round8921-------squared error: 3.9131 parameter: [18.398       0.67465048 -1.9592033
1 -0.16255428]
Round8922-------squared error: 3.9131 parameter: [18.398       0.6746503  -1.9592034
7 -0.16255425]
Round8923-------squared error: 3.9131 parameter: [18.398       0.67465012 -1.9592036
4 -0.16255422]
Round8924-------squared error: 3.9131 parameter: [18.398       0.67464994 -1.9592038
-0.16255419]
Round8925-------squared error: 3.9131 parameter: [18.398       0.67464976 -1.9592039
6 -0.16255417]
Round8926-------squared error: 3.9131 parameter: [18.398       0.67464958 -1.9592041
2 -0.16255414]
Round8927-------squared error: 3.9131 parameter: [18.398       0.6746494  -1.9592042
9 -0.16255411]
Round8928-------squared error: 3.9131 parameter: [18.398       0.67464923 -1.9592044
5 -0.16255409]
```

```
Round8929-------squared error: 3.9131 parameter: [18.398       0.67464905 -1.9592046
1 -0.16255406]
Round8930-------squared error: 3.9131 parameter: [18.398       0.67464887 -1.9592047
7 -0.16255403]
Round8931-------squared error: 3.9131 parameter: [18.398       0.67464869 -1.9592049
3 -0.162554  ]
Round8932-------squared error: 3.9131 parameter: [18.398       0.67464851 -1.9592050
9 -0.16255398]
Round8933-------squared error: 3.9131 parameter: [18.398       0.67464834 -1.9592052
5 -0.16255395]
Round8934-------squared error: 3.9131 parameter: [18.398       0.67464816 -1.9592054
1 -0.16255392]
Round8935-------squared error: 3.9131 parameter: [18.398       0.67464798 -1.9592055
7 -0.16255389]
Round8936-------squared error: 3.9131 parameter: [18.398       0.6746478  -1.9592057
4 -0.16255387]
Round8937-------squared error: 3.9131 parameter: [18.398       0.67464763 -1.9592059
-0.16255384]
Round8938-------squared error: 3.9131 parameter: [18.398       0.67464745 -1.9592060
6 -0.16255381]
Round8939-------squared error: 3.9131 parameter: [18.398       0.67464727 -1.9592062
2 -0.16255379]
Round8940-------squared error: 3.9131 parameter: [18.398       0.6746471  -1.9592063
8 -0.16255376]
Round8941-------squared error: 3.9131 parameter: [18.398       0.67464692 -1.9592065
3 -0.16255373]
Round8942-------squared error: 3.9131 parameter: [18.398       0.67464674 -1.9592066
9 -0.16255371]
Round8943-------squared error: 3.9131 parameter: [18.398       0.67464657 -1.9592068
5 -0.16255368]
Round8944-------squared error: 3.9131 parameter: [18.398       0.67464639 -1.9592070
1 -0.16255365]
Round8945-------squared error: 3.9131 parameter: [18.398       0.67464622 -1.9592071
7 -0.16255363]
Round8946-------squared error: 3.9131 parameter: [18.398       0.67464604 -1.9592073
3 -0.1625536 ]
Round8947-------squared error: 3.9131 parameter: [18.398       0.67464586 -1.9592074
9 -0.16255357]
Round8948-------squared error: 3.9131 parameter: [18.398       0.67464569 -1.9592076
5 -0.16255354]
Round8949-------squared error: 3.9131 parameter: [18.398       0.67464551 -1.9592078
1 -0.16255352]
Round8950-------squared error: 3.9131 parameter: [18.398       0.67464534 -1.9592079
6 -0.16255349]
Round8951-------squared error: 3.9131 parameter: [18.398       0.67464517 -1.9592081
2 -0.16255346]
Round8952-------squared error: 3.9131 parameter: [18.398       0.67464499 -1.9592082
8 -0.16255344]
Round8953-------squared error: 3.9131 parameter: [18.398       0.67464482 -1.9592084
4 -0.16255341]
Round8954-------squared error: 3.9131 parameter: [18.398       0.67464464 -1.9592086
-0.16255338]
Round8955-------squared error: 3.9131 parameter: [18.398       0.67464447 -1.9592087
5 -0.16255336]
Round8956-------squared error: 3.9131 parameter: [18.398       0.67464429 -1.9592089
1 -0.16255333]
Round8957-------squared error: 3.9131 parameter: [18.398       0.67464412 -1.9592090
7 -0.16255331]
Round8958-------squared error: 3.9131 parameter: [18.398       0.67464395 -1.9592092
3 -0.16255328]
Round8959-------squared error: 3.9131 parameter: [18.398       0.67464377 -1.9592093
8 -0.16255325]
Round8960-------squared error: 3.9131 parameter: [18.398       0.6746436  -1.9592095
4 -0.16255323]
```

```
Round8961-------squared error: 3.9131 parameter: [18.398       0.67464343 -1.9592097
-0.1625532 ]
Round8962-------squared error: 3.9131 parameter: [18.398       0.67464325 -1.9592098
5 -0.16255317]
Round8963-------squared error: 3.9131 parameter: [18.398       0.67464308 -1.9592100
1 -0.16255315]
Round8964-------squared error: 3.9131 parameter: [18.398       0.67464291 -1.9592101
6 -0.16255312]
Round8965-------squared error: 3.9131 parameter: [18.398       0.67464274 -1.9592103
2 -0.16255309]
Round8966-------squared error: 3.9131 parameter: [18.398       0.67464257 -1.9592104
8 -0.16255307]
Round8967-------squared error: 3.9131 parameter: [18.398       0.67464239 -1.9592106
3 -0.16255304]
Round8968-------squared error: 3.9131 parameter: [18.398       0.67464222 -1.9592107
9 -0.16255302]
Round8969-------squared error: 3.9131 parameter: [18.398       0.67464205 -1.9592109
4 -0.16255299]
Round8970-------squared error: 3.9131 parameter: [18.398       0.67464188 -1.9592111
-0.16255296]
Round8971-------squared error: 3.9131 parameter: [18.398       0.67464171 -1.9592112
5 -0.16255294]
Round8972-------squared error: 3.9131 parameter: [18.398       0.67464154 -1.9592114
1 -0.16255291]
Round8973-------squared error: 3.9131 parameter: [18.398       0.67464136 -1.9592115
6 -0.16255288]
Round8974-------squared error: 3.9131 parameter: [18.398       0.67464119 -1.9592117
2 -0.16255286]
Round8975-------squared error: 3.9131 parameter: [18.398       0.67464102 -1.9592118
7 -0.16255283]
Round8976-------squared error: 3.9131 parameter: [18.398       0.67464085 -1.9592120
3 -0.16255281]
Round8977-------squared error: 3.9131 parameter: [18.398       0.67464068 -1.9592121
8 -0.16255278]
Round8978-------squared error: 3.9131 parameter: [18.398       0.67464051 -1.9592123
4 -0.16255275]
Round8979-------squared error: 3.9131 parameter: [18.398       0.67464034 -1.9592124
9 -0.16255273]
Round8980-------squared error: 3.9131 parameter: [18.398       0.67464017 -1.9592126
4 -0.1625527 ]
Round8981-------squared error: 3.9131 parameter: [18.398       0.67464    -1.9592128
-0.16255268]
Round8982-------squared error: 3.9131 parameter: [18.398       0.67463983 -1.9592129
5 -0.16255265]
Round8983-------squared error: 3.9131 parameter: [18.398       0.67463966 -1.9592131
-0.16255262]
Round8984-------squared error: 3.9131 parameter: [18.398       0.67463949 -1.9592132
6 -0.1625526 ]
Round8985-------squared error: 3.9131 parameter: [18.398       0.67463933 -1.9592134
1 -0.16255257]
Round8986-------squared error: 3.9131 parameter: [18.398       0.67463916 -1.9592135
6 -0.16255255]
Round8987-------squared error: 3.9131 parameter: [18.398       0.67463899 -1.9592137
2 -0.16255252]
Round8988-------squared error: 3.9131 parameter: [18.398       0.67463882 -1.9592138
7 -0.1625525 ]
Round8989-------squared error: 3.9131 parameter: [18.398       0.67463865 -1.9592140
2 -0.16255247]
Round8990-------squared error: 3.9131 parameter: [18.398       0.67463848 -1.9592141
7 -0.16255244]
Round8991-------squared error: 3.9131 parameter: [18.398       0.67463831 -1.9592143
2 -0.16255242]
Round8992-------squared error: 3.9131 parameter: [18.398       0.67463815 -1.9592144
8 -0.16255239]
```

```
Round8993-------squared error: 3.9131 parameter: [18.398       0.67463798 -1.9592146
3 -0.16255237]
Round8994-------squared error: 3.9131 parameter: [18.398       0.67463781 -1.9592147
8 -0.16255234]
Round8995-------squared error: 3.9131 parameter: [18.398       0.67463764 -1.9592149
3 -0.16255232]
Round8996-------squared error: 3.9131 parameter: [18.398       0.67463748 -1.9592150
8 -0.16255229]
Round8997-------squared error: 3.9131 parameter: [18.398       0.67463731 -1.9592152
3 -0.16255226]
Round8998-------squared error: 3.9131 parameter: [18.398       0.67463714 -1.9592153
9 -0.16255224]
Round8999-------squared error: 3.9131 parameter: [18.398       0.67463698 -1.9592155
4 -0.16255221]
Round9000-------squared error: 3.9131 parameter: [18.398       0.67463681 -1.9592156
9 -0.16255219]
Round9001-------squared error: 3.9131 parameter: [18.398       0.67463664 -1.9592158
4 -0.16255216]
Round9002-------squared error: 3.9131 parameter: [18.398       0.67463648 -1.9592159
9 -0.16255214]
Round9003-------squared error: 3.9131 parameter: [18.398       0.67463631 -1.9592161
4 -0.16255211]
Round9004-------squared error: 3.9131 parameter: [18.398       0.67463614 -1.9592162
9 -0.16255209]
Round9005-------squared error: 3.9131 parameter: [18.398       0.67463598 -1.9592164
4 -0.16255206]
Round9006-------squared error: 3.9131 parameter: [18.398       0.67463581 -1.9592165
9 -0.16255204]
Round9007-------squared error: 3.9131 parameter: [18.398       0.67463565 -1.9592167
4 -0.16255201]
Round9008-------squared error: 3.9131 parameter: [18.398       0.67463548 -1.9592168
9 -0.16255199]
Round9009-------squared error: 3.9131 parameter: [18.398       0.67463532 -1.9592170
4 -0.16255196]
Round9010-------squared error: 3.9131 parameter: [18.398       0.67463515 -1.9592171
9 -0.16255194]
Round9011-------squared error: 3.9131 parameter: [18.398       0.67463499 -1.9592173
4 -0.16255191]
Round9012-------squared error: 3.9131 parameter: [18.398       0.67463482 -1.9592174
9 -0.16255188]
Round9013-------squared error: 3.9131 parameter: [18.398       0.67463466 -1.9592176
4 -0.16255186]
Round9014-------squared error: 3.9131 parameter: [18.398       0.67463449 -1.9592177
8 -0.16255183]
Round9015-------squared error: 3.9131 parameter: [18.398       0.67463433 -1.9592179
3 -0.16255181]
Round9016-------squared error: 3.9131 parameter: [18.398       0.67463417 -1.9592180
8 -0.16255178]
Round9017-------squared error: 3.9131 parameter: [18.398       0.674634   -1.9592182
3 -0.16255176]
Round9018-------squared error: 3.9131 parameter: [18.398       0.67463384 -1.9592183
8 -0.16255173]
Round9019-------squared error: 3.9131 parameter: [18.398       0.67463367 -1.9592185
3 -0.16255171]
Round9020-------squared error: 3.9131 parameter: [18.398       0.67463351 -1.9592186
7 -0.16255168]
Round9021-------squared error: 3.9131 parameter: [18.398       0.67463335 -1.9592188
2 -0.16255166]
Round9022-------squared error: 3.9131 parameter: [18.398       0.67463318 -1.9592189
7 -0.16255163]
Round9023-------squared error: 3.9131 parameter: [18.398       0.67463302 -1.9592191
2 -0.16255161]
Round9024-------squared error: 3.9131 parameter: [18.398       0.67463286 -1.9592192
6 -0.16255158]
```

```
Round9025-------squared error: 3.9131 parameter: [18.398       0.6746327  -1.9592194
1 -0.16255156]
Round9026-------squared error: 3.9131 parameter: [18.398       0.67463253 -1.9592195
6 -0.16255154]
Round9027-------squared error: 3.9131 parameter: [18.398       0.67463237 -1.9592197
1 -0.16255151]
Round9028-------squared error: 3.9131 parameter: [18.398       0.67463221 -1.9592198
5 -0.16255149]
Round9029-------squared error: 3.9131 parameter: [18.398       0.67463205 -1.95922
-0.16255146]
Round9030-------squared error: 3.9131 parameter: [18.398       0.67463188 -1.9592201
5 -0.16255144]
Round9031-------squared error: 3.9131 parameter: [18.398       0.67463172 -1.9592202
9 -0.16255141]
Round9032-------squared error: 3.9131 parameter: [18.398       0.67463156 -1.9592204
4 -0.16255139]
Round9033-------squared error: 3.9131 parameter: [18.398       0.6746314  -1.9592205
8 -0.16255136]
Round9034-------squared error: 3.9131 parameter: [18.398       0.67463124 -1.9592207
3 -0.16255134]
Round9035-------squared error: 3.9131 parameter: [18.398       0.67463108 -1.9592208
8 -0.16255131]
Round9036-------squared error: 3.9131 parameter: [18.398       0.67463092 -1.9592210
2 -0.16255129]
Round9037-------squared error: 3.9131 parameter: [18.398       0.67463076 -1.9592211
7 -0.16255126]
Round9038-------squared error: 3.9131 parameter: [18.398       0.6746306  -1.9592213
1 -0.16255124]
Round9039-------squared error: 3.9131 parameter: [18.398       0.67463043 -1.9592214
6 -0.16255121]
Round9040-------squared error: 3.9131 parameter: [18.398       0.67463027 -1.9592216
-0.16255119]
Round9041-------squared error: 3.9131 parameter: [18.398       0.67463011 -1.9592217
5 -0.16255117]
Round9042-------squared error: 3.9131 parameter: [18.398       0.67462995 -1.9592218
9 -0.16255114]
Round9043-------squared error: 3.9131 parameter: [18.398       0.67462979 -1.9592220
4 -0.16255112]
Round9044-------squared error: 3.9131 parameter: [18.398       0.67462963 -1.9592221
8 -0.16255109]
Round9045-------squared error: 3.9131 parameter: [18.398       0.67462948 -1.9592223
3 -0.16255107]
Round9046-------squared error: 3.9131 parameter: [18.398       0.67462932 -1.9592224
7 -0.16255104]
Round9047-------squared error: 3.9131 parameter: [18.398       0.67462916 -1.9592226
2 -0.16255102]
Round9048-------squared error: 3.9131 parameter: [18.398       0.674629   -1.9592227
6 -0.162551  ]
Round9049-------squared error: 3.9131 parameter: [18.398       0.67462884 -1.9592229
-0.16255097]
Round9050-------squared error: 3.9131 parameter: [18.398       0.67462868 -1.9592230
5 -0.16255095]
Round9051-------squared error: 3.9131 parameter: [18.398       0.67462852 -1.9592231
9 -0.16255092]
Round9052-------squared error: 3.9131 parameter: [18.398       0.67462836 -1.9592233
3 -0.1625509 ]
Round9053-------squared error: 3.9131 parameter: [18.398       0.6746282  -1.9592234
8 -0.16255087]
Round9054-------squared error: 3.9131 parameter: [18.398       0.67462805 -1.9592236
2 -0.16255085]
Round9055-------squared error: 3.9131 parameter: [18.398       0.67462789 -1.9592237
6 -0.16255083]
Round9056-------squared error: 3.9131 parameter: [18.398       0.67462773 -1.9592239
1 -0.1625508 ]
```

```
Round9057-------squared error: 3.9131 parameter: [18.398       0.67462757 -1.9592240
5 -0.16255078]
Round9058-------squared error: 3.9131 parameter: [18.398       0.67462742 -1.9592241
9 -0.16255075]
Round9059-------squared error: 3.9131 parameter: [18.398       0.67462726 -1.9592243
3 -0.16255073]
Round9060-------squared error: 3.9131 parameter: [18.398       0.6746271  -1.9592244
8 -0.16255071]
Round9061-------squared error: 3.9131 parameter: [18.398       0.67462694 -1.9592246
2 -0.16255068]
Round9062-------squared error: 3.9131 parameter: [18.398       0.67462679 -1.9592247
6 -0.16255066]
Round9063-------squared error: 3.9131 parameter: [18.398       0.67462663 -1.9592249
-0.16255063]
Round9064-------squared error: 3.9131 parameter: [18.398       0.67462647 -1.9592250
5 -0.16255061]
Round9065-------squared error: 3.9131 parameter: [18.398       0.67462632 -1.9592251
9 -0.16255059]
Round9066-------squared error: 3.9131 parameter: [18.398       0.67462616 -1.9592253
3 -0.16255056]
Round9067-------squared error: 3.9131 parameter: [18.398       0.674626   -1.9592254
7 -0.16255054]
Round9068-------squared error: 3.9131 parameter: [18.398       0.67462585 -1.9592256
1 -0.16255051]
Round9069-------squared error: 3.9131 parameter: [18.398       0.67462569 -1.9592257
5 -0.16255049]
Round9070-------squared error: 3.9131 parameter: [18.398       0.67462554 -1.9592258
9 -0.16255047]
Round9071-------squared error: 3.9131 parameter: [18.398       0.67462538 -1.9592260
3 -0.16255044]
Round9072-------squared error: 3.9131 parameter: [18.398       0.67462523 -1.9592261
7 -0.16255042]
Round9073-------squared error: 3.9131 parameter: [18.398       0.67462507 -1.9592263
2 -0.1625504 ]
Round9074-------squared error: 3.9131 parameter: [18.398       0.67462491 -1.9592264
6 -0.16255037]
Round9075-------squared error: 3.9131 parameter: [18.398       0.67462476 -1.9592266
-0.16255035]
Round9076-------squared error: 3.9131 parameter: [18.398       0.6746246  -1.9592267
4 -0.16255032]
Round9077-------squared error: 3.9131 parameter: [18.398       0.67462445 -1.9592268
8 -0.1625503 ]
Round9078-------squared error: 3.9131 parameter: [18.398       0.6746243  -1.9592270
2 -0.16255028]
Round9079-------squared error: 3.9131 parameter: [18.398       0.67462414 -1.9592271
6 -0.16255025]
Round9080-------squared error: 3.9131 parameter: [18.398       0.67462399 -1.9592273
-0.16255023]
Round9081-------squared error: 3.9131 parameter: [18.398       0.67462383 -1.9592274
4 -0.16255021]
Round9082-------squared error: 3.9131 parameter: [18.398       0.67462368 -1.9592275
7 -0.16255018]
Round9083-------squared error: 3.9131 parameter: [18.398       0.67462353 -1.9592277
1 -0.16255016]
Round9084-------squared error: 3.9131 parameter: [18.398       0.67462337 -1.9592278
5 -0.16255014]
Round9085-------squared error: 3.9131 parameter: [18.398       0.67462322 -1.9592279
9 -0.16255011]
Round9086-------squared error: 3.9131 parameter: [18.398       0.67462306 -1.9592281
3 -0.16255009]
Round9087-------squared error: 3.9131 parameter: [18.398       0.67462291 -1.9592282
7 -0.16255007]
Round9088-------squared error: 3.9131 parameter: [18.398       0.67462276 -1.9592284
1 -0.16255004]
```

```
Round9089-------squared error: 3.9131 parameter: [18.398       0.67462261 -1.9592285
5 -0.16255002]
Round9090-------squared error: 3.9131 parameter: [18.398       0.67462245 -1.9592286
8 -0.16255   ]
Round9091-------squared error: 3.9131 parameter: [18.398       0.6746223  -1.9592288
2 -0.16254997]
Round9092-------squared error: 3.9131 parameter: [18.398       0.67462215 -1.9592289
6 -0.16254995]
Round9093-------squared error: 3.9131 parameter: [18.398       0.674622   -1.9592291
-0.16254993]
Round9094-------squared error: 3.9131 parameter: [18.398       0.67462184 -1.9592292
4 -0.1625499 ]
Round9095-------squared error: 3.9131 parameter: [18.398       0.67462169 -1.9592293
7 -0.16254988]
Round9096-------squared error: 3.9131 parameter: [18.398       0.67462154 -1.9592295
1 -0.16254986]
Round9097-------squared error: 3.9131 parameter: [18.398       0.67462139 -1.9592296
5 -0.16254983]
Round9098-------squared error: 3.9131 parameter: [18.398       0.67462124 -1.9592297
9 -0.16254981]
Round9099-------squared error: 3.9131 parameter: [18.398       0.67462108 -1.9592299
2 -0.16254979]
Round9100-------squared error: 3.9131 parameter: [18.398       0.67462093 -1.9592300
6 -0.16254976]
Round9101-------squared error: 3.9131 parameter: [18.398       0.67462078 -1.9592302
-0.16254974]
Round9102-------squared error: 3.9131 parameter: [18.398       0.67462063 -1.9592303
3 -0.16254972]
Round9103-------squared error: 3.9131 parameter: [18.398       0.67462048 -1.9592304
7 -0.16254969]
Round9104-------squared error: 3.9131 parameter: [18.398       0.67462033 -1.9592306
1 -0.16254967]
Round9105-------squared error: 3.9131 parameter: [18.398       0.67462018 -1.9592307
4 -0.16254965]
Round9106-------squared error: 3.9131 parameter: [18.398       0.67462003 -1.9592308
8 -0.16254963]
Round9107-------squared error: 3.9131 parameter: [18.398       0.67461988 -1.9592310
2 -0.1625496 ]
Round9108-------squared error: 3.9131 parameter: [18.398       0.67461973 -1.9592311
5 -0.16254958]
Round9109-------squared error: 3.9131 parameter: [18.398       0.67461958 -1.9592312
9 -0.16254956]
Round9110-------squared error: 3.9131 parameter: [18.398       0.67461943 -1.9592314
2 -0.16254953]
Round9111-------squared error: 3.9131 parameter: [18.398       0.67461928 -1.9592315
6 -0.16254951]
Round9112-------squared error: 3.9131 parameter: [18.398       0.67461913 -1.9592316
9 -0.16254949]
Round9113-------squared error: 3.9131 parameter: [18.398       0.67461898 -1.9592318
3 -0.16254946]
Round9114-------squared error: 3.9131 parameter: [18.398       0.67461883 -1.9592319
6 -0.16254944]
Round9115-------squared error: 3.9131 parameter: [18.398       0.67461868 -1.9592321
-0.16254942]
Round9116-------squared error: 3.9131 parameter: [18.398       0.67461853 -1.9592322
3 -0.1625494 ]
Round9117-------squared error: 3.9131 parameter: [18.398       0.67461838 -1.9592323
7 -0.16254937]
Round9118-------squared error: 3.9131 parameter: [18.398       0.67461823 -1.9592325
-0.16254935]
Round9119-------squared error: 3.9131 parameter: [18.398       0.67461809 -1.9592326
4 -0.16254933]
Round9120-------squared error: 3.9131 parameter: [18.398       0.67461794 -1.9592327
7 -0.16254931]
```

```
Round9121-------squared error: 3.9131 parameter: [18.398       0.67461779 -1.9592329
1 -0.16254928]
Round9122-------squared error: 3.9131 parameter: [18.398       0.67461764 -1.9592330
4 -0.16254926]
Round9123-------squared error: 3.9131 parameter: [18.398       0.67461749 -1.9592331
8 -0.16254924]
Round9124-------squared error: 3.9131 parameter: [18.398       0.67461734 -1.9592333
1 -0.16254922]
Round9125-------squared error: 3.9131 parameter: [18.398       0.6746172  -1.9592334
4 -0.16254919]
Round9126-------squared error: 3.9131 parameter: [18.398       0.67461705 -1.9592335
8 -0.16254917]
Round9127-------squared error: 3.9131 parameter: [18.398       0.6746169  -1.9592337
1 -0.16254915]
Round9128-------squared error: 3.9131 parameter: [18.398       0.67461675 -1.9592338
4 -0.16254913]
Round9129-------squared error: 3.9131 parameter: [18.398       0.67461661 -1.9592339
8 -0.1625491 ]
Round9130-------squared error: 3.9131 parameter: [18.398       0.67461646 -1.9592341
1 -0.16254908]
Round9131-------squared error: 3.9131 parameter: [18.398       0.67461631 -1.9592342
4 -0.16254906]
Round9132-------squared error: 3.9131 parameter: [18.398       0.67461617 -1.9592343
8 -0.16254904]
Round9133-------squared error: 3.9131 parameter: [18.398       0.67461602 -1.9592345
1 -0.16254901]
Round9134-------squared error: 3.9131 parameter: [18.398       0.67461587 -1.9592346
4 -0.16254899]
Round9135-------squared error: 3.9131 parameter: [18.398       0.67461573 -1.9592347
7 -0.16254897]
Round9136-------squared error: 3.9131 parameter: [18.398       0.67461558 -1.9592349
1 -0.16254895]
Round9137-------squared error: 3.9131 parameter: [18.398       0.67461544 -1.9592350
4 -0.16254892]
Round9138-------squared error: 3.9131 parameter: [18.398       0.67461529 -1.9592351
7 -0.1625489 ]
Round9139-------squared error: 3.9131 parameter: [18.398       0.67461514 -1.9592353
-0.16254888]
Round9140-------squared error: 3.9131 parameter: [18.398       0.674615   -1.9592354
3 -0.16254886]
Round9141-------squared error: 3.9131 parameter: [18.398       0.67461485 -1.9592355
6 -0.16254883]
Round9142-------squared error: 3.9131 parameter: [18.398       0.67461471 -1.9592357
-0.16254881]
Round9143-------squared error: 3.9131 parameter: [18.398       0.67461456 -1.9592358
3 -0.16254879]
Round9144-------squared error: 3.9131 parameter: [18.398       0.67461442 -1.9592359
6 -0.16254877]
Round9145-------squared error: 3.9131 parameter: [18.398       0.67461427 -1.9592360
9 -0.16254875]
Round9146-------squared error: 3.9131 parameter: [18.398       0.67461413 -1.9592362
2 -0.16254872]
Round9147-------squared error: 3.9131 parameter: [18.398       0.67461398 -1.9592363
5 -0.1625487 ]
Round9148-------squared error: 3.9131 parameter: [18.398       0.67461384 -1.9592364
8 -0.16254868]
Round9149-------squared error: 3.9131 parameter: [18.398       0.67461369 -1.9592366
1 -0.16254866]
Round9150-------squared error: 3.9131 parameter: [18.398       0.67461355 -1.9592367
4 -0.16254864]
Round9151-------squared error: 3.9131 parameter: [18.398       0.67461341 -1.9592368
7 -0.16254861]
Round9152-------squared error: 3.9131 parameter: [18.398       0.67461326 -1.959237
-0.16254859]
```

```
Round9153-------squared error: 3.9131 parameter: [18.398       0.67461312 -1.9592371
4 -0.16254857]
Round9154-------squared error: 3.9131 parameter: [18.398       0.67461297 -1.9592372
7 -0.16254855]
Round9155-------squared error: 3.9131 parameter: [18.398       0.67461283 -1.9592374
-0.16254853]
Round9156-------squared error: 3.9131 parameter: [18.398       0.67461269 -1.9592375
2 -0.1625485 ]
Round9157-------squared error: 3.9131 parameter: [18.398       0.67461254 -1.9592376
5 -0.16254848]
Round9158-------squared error: 3.9131 parameter: [18.398       0.6746124  -1.9592377
8 -0.16254846]
Round9159-------squared error: 3.9131 parameter: [18.398       0.67461226 -1.9592379
1 -0.16254844]
Round9160-------squared error: 3.9131 parameter: [18.398       0.67461212 -1.9592380
4 -0.16254842]
Round9161-------squared error: 3.9131 parameter: [18.398       0.67461197 -1.9592381
7 -0.16254839]
Round9162-------squared error: 3.9131 parameter: [18.398       0.67461183 -1.9592383
-0.16254837]
Round9163-------squared error: 3.9131 parameter: [18.398       0.67461169 -1.9592384
3 -0.16254835]
Round9164-------squared error: 3.9131 parameter: [18.398       0.67461155 -1.9592385
6 -0.16254833]
Round9165-------squared error: 3.9131 parameter: [18.398       0.6746114  -1.9592386
9 -0.16254831]
Round9166-------squared error: 3.9131 parameter: [18.398       0.67461126 -1.9592388
2 -0.16254829]
Round9167-------squared error: 3.9131 parameter: [18.398       0.67461112 -1.9592389
4 -0.16254826]
Round9168-------squared error: 3.9131 parameter: [18.398       0.67461098 -1.9592390
7 -0.16254824]
Round9169-------squared error: 3.9131 parameter: [18.398       0.67461084 -1.9592392
-0.16254822]
Round9170-------squared error: 3.9131 parameter: [18.398       0.6746107  -1.9592393
3 -0.1625482 ]
Round9171-------squared error: 3.9131 parameter: [18.398       0.67461055 -1.9592394
6 -0.16254818]
Round9172-------squared error: 3.9131 parameter: [18.398       0.67461041 -1.9592395
8 -0.16254816]
Round9173-------squared error: 3.9131 parameter: [18.398       0.67461027 -1.9592397
1 -0.16254813]
Round9174-------squared error: 3.9131 parameter: [18.398       0.67461013 -1.9592398
4 -0.16254811]
Round9175-------squared error: 3.9131 parameter: [18.398       0.67460999 -1.9592399
7 -0.16254809]
Round9176-------squared error: 3.9131 parameter: [18.398       0.67460985 -1.9592400
9 -0.16254807]
Round9177-------squared error: 3.9131 parameter: [18.398       0.67460971 -1.9592402
2 -0.16254805]
Round9178-------squared error: 3.9131 parameter: [18.398       0.67460957 -1.9592403
5 -0.16254803]
Round9179-------squared error: 3.9131 parameter: [18.398       0.67460943 -1.9592404
8 -0.16254801]
Round9180-------squared error: 3.9131 parameter: [18.398       0.67460929 -1.9592406
-0.16254798]
Round9181-------squared error: 3.9131 parameter: [18.398       0.67460915 -1.9592407
3 -0.16254796]
Round9182-------squared error: 3.9131 parameter: [18.398       0.67460901 -1.9592408
6 -0.16254794]
Round9183-------squared error: 3.9131 parameter: [18.398       0.67460887 -1.9592409
8 -0.16254792]
Round9184-------squared error: 3.9131 parameter: [18.398       0.67460873 -1.9592411
1 -0.1625479 ]
```

```
Round9185-------squared error: 3.9131 parameter: [18.398       0.67460859 -1.9592412
3 -0.16254788]
Round9186-------squared error: 3.9131 parameter: [18.398       0.67460845 -1.9592413
6 -0.16254786]
Round9187-------squared error: 3.9131 parameter: [18.398       0.67460831 -1.9592414
9 -0.16254784]
Round9188-------squared error: 3.9131 parameter: [18.398       0.67460817 -1.9592416
1 -0.16254781]
Round9189-------squared error: 3.9131 parameter: [18.398       0.67460803 -1.9592417
4 -0.16254779]
Round9190-------squared error: 3.9131 parameter: [18.398       0.67460789 -1.9592418
6 -0.16254777]
Round9191-------squared error: 3.9131 parameter: [18.398       0.67460776 -1.9592419
9 -0.16254775]
Round9192-------squared error: 3.9131 parameter: [18.398       0.67460762 -1.9592421
1 -0.16254773]
Round9193-------squared error: 3.9131 parameter: [18.398       0.67460748 -1.9592422
4 -0.16254771]
Round9194-------squared error: 3.9131 parameter: [18.398       0.67460734 -1.9592423
7 -0.16254769]
Round9195-------squared error: 3.9131 parameter: [18.398       0.6746072  -1.9592424
9 -0.16254767]
Round9196-------squared error: 3.9131 parameter: [18.398       0.67460707 -1.9592426
2 -0.16254764]
Round9197-------squared error: 3.9131 parameter: [18.398       0.67460693 -1.9592427
4 -0.16254762]
Round9198-------squared error: 3.9131 parameter: [18.398       0.67460679 -1.9592428
6 -0.1625476 ]
Round9199-------squared error: 3.9131 parameter: [18.398       0.67460665 -1.9592429
9 -0.16254758]
Round9200-------squared error: 3.9131 parameter: [18.398       0.67460651 -1.9592431
1 -0.16254756]
Round9201-------squared error: 3.9131 parameter: [18.398       0.67460638 -1.9592432
4 -0.16254754]
Round9202-------squared error: 3.9131 parameter: [18.398       0.67460624 -1.9592433
6 -0.16254752]
Round9203-------squared error: 3.9131 parameter: [18.398       0.6746061  -1.9592434
9 -0.1625475 ]
Round9204-------squared error: 3.9131 parameter: [18.398       0.67460597 -1.9592436
1 -0.16254748]
Round9205-------squared error: 3.9131 parameter: [18.398       0.67460583 -1.9592437
3 -0.16254746]
Round9206-------squared error: 3.9131 parameter: [18.398       0.67460569 -1.9592438
6 -0.16254744]
Round9207-------squared error: 3.9131 parameter: [18.398       0.67460556 -1.9592439
8 -0.16254741]
Round9208-------squared error: 3.9131 parameter: [18.398       0.67460542 -1.9592441
-0.16254739]
Round9209-------squared error: 3.9131 parameter: [18.398       0.67460528 -1.9592442
3 -0.16254737]
Round9210-------squared error: 3.9131 parameter: [18.398       0.67460515 -1.9592443
5 -0.16254735]
Round9211-------squared error: 3.9131 parameter: [18.398       0.67460501 -1.9592444
7 -0.16254733]
Round9212-------squared error: 3.9131 parameter: [18.398       0.67460488 -1.9592446
-0.16254731]
Round9213-------squared error: 3.9131 parameter: [18.398       0.67460474 -1.9592447
2 -0.16254729]
Round9214-------squared error: 3.9131 parameter: [18.398       0.6746046  -1.9592448
4 -0.16254727]
Round9215-------squared error: 3.9131 parameter: [18.398       0.67460447 -1.9592449
7 -0.16254725]
Round9216-------squared error: 3.9131 parameter: [18.398       0.67460433 -1.9592450
9 -0.16254723]
```

```
Round9217-------squared error: 3.9131 parameter: [18.398       0.6746042  -1.9592452
1 -0.16254721]
Round9218-------squared error: 3.9131 parameter: [18.398       0.67460406 -1.9592453
3 -0.16254719]
Round9219-------squared error: 3.9131 parameter: [18.398       0.67460393 -1.9592454
5 -0.16254717]
Round9220-------squared error: 3.9131 parameter: [18.398       0.67460379 -1.9592455
8 -0.16254715]
Round9221-------squared error: 3.9131 parameter: [18.398       0.67460366 -1.9592457
-0.16254712]
Round9222-------squared error: 3.9131 parameter: [18.398       0.67460352 -1.9592458
2 -0.1625471 ]
Round9223-------squared error: 3.9131 parameter: [18.398       0.67460339 -1.9592459
4 -0.16254708]
Round9224-------squared error: 3.9131 parameter: [18.398       0.67460326 -1.9592460
6 -0.16254706]
Round9225-------squared error: 3.9131 parameter: [18.398       0.67460312 -1.9592461
8 -0.16254704]
Round9226-------squared error: 3.9131 parameter: [18.398       0.67460299 -1.9592463
1 -0.16254702]
Round9227-------squared error: 3.9131 parameter: [18.398       0.67460285 -1.9592464
3 -0.162547  ]
Round9228-------squared error: 3.9131 parameter: [18.398       0.67460272 -1.9592465
5 -0.16254698]
Round9229-------squared error: 3.9131 parameter: [18.398       0.67460259 -1.9592466
7 -0.16254696]
Round9230-------squared error: 3.9131 parameter: [18.398       0.67460245 -1.9592467
9 -0.16254694]
Round9231-------squared error: 3.9131 parameter: [18.398       0.67460232 -1.9592469
1 -0.16254692]
Round9232-------squared error: 3.9131 parameter: [18.398       0.67460219 -1.9592470
3 -0.1625469 ]
Round9233-------squared error: 3.9131 parameter: [18.398       0.67460205 -1.9592471
5 -0.16254688]
Round9234-------squared error: 3.9131 parameter: [18.398       0.67460192 -1.9592472
7 -0.16254686]
Round9235-------squared error: 3.9131 parameter: [18.398       0.67460179 -1.9592473
9 -0.16254684]
Round9236-------squared error: 3.9131 parameter: [18.398       0.67460166 -1.9592475
1 -0.16254682]
Round9237-------squared error: 3.9131 parameter: [18.398       0.67460152 -1.9592476
3 -0.1625468 ]
Round9238-------squared error: 3.9131 parameter: [18.398       0.67460139 -1.9592477
5 -0.16254678]
Round9239-------squared error: 3.9131 parameter: [18.398       0.67460126 -1.9592478
7 -0.16254676]
Round9240-------squared error: 3.9131 parameter: [18.398       0.67460113 -1.9592479
9 -0.16254674]
Round9241-------squared error: 3.9131 parameter: [18.398       0.67460099 -1.9592481
1 -0.16254672]
Round9242-------squared error: 3.9131 parameter: [18.398       0.67460086 -1.9592482
3 -0.1625467 ]
Round9243-------squared error: 3.9131 parameter: [18.398       0.67460073 -1.9592483
5 -0.16254668]
Round9244-------squared error: 3.9131 parameter: [18.398       0.6746006  -1.9592484
7 -0.16254666]
Round9245-------squared error: 3.9131 parameter: [18.398       0.67460047 -1.9592485
9 -0.16254664]
Round9246-------squared error: 3.9131 parameter: [18.398       0.67460033 -1.9592487
1 -0.16254662]
Round9247-------squared error: 3.9131 parameter: [18.398       0.6746002  -1.9592488
3 -0.1625466 ]
Round9248-------squared error: 3.9131 parameter: [18.398       0.67460007 -1.9592489
5 -0.16254658]
```

```
Round9249-------squared error: 3.9131 parameter: [18.398       0.67459994 -1.9592490
6 -0.16254656]
Round9250-------squared error: 3.9131 parameter: [18.398       0.67459981 -1.9592491
8 -0.16254654]
Round9251-------squared error: 3.9131 parameter: [18.398       0.67459968 -1.9592493
-0.16254652]
Round9252-------squared error: 3.9131 parameter: [18.398       0.67459955 -1.9592494
2 -0.1625465 ]
Round9253-------squared error: 3.9131 parameter: [18.398       0.67459942 -1.9592495
4 -0.16254648]
Round9254-------squared error: 3.9131 parameter: [18.398       0.67459929 -1.9592496
6 -0.16254646]
Round9255-------squared error: 3.9131 parameter: [18.398       0.67459916 -1.9592497
7 -0.16254644]
Round9256-------squared error: 3.9131 parameter: [18.398       0.67459903 -1.9592498
9 -0.16254642]
Round9257-------squared error: 3.9131 parameter: [18.398       0.6745989  -1.9592500
1 -0.1625464 ]
Round9258-------squared error: 3.9131 parameter: [18.398       0.67459877 -1.9592501
3 -0.16254638]
Round9259-------squared error: 3.9131 parameter: [18.398       0.67459864 -1.9592502
5 -0.16254636]
Round9260-------squared error: 3.9131 parameter: [18.398       0.67459851 -1.9592503
6 -0.16254634]
Round9261-------squared error: 3.9131 parameter: [18.398       0.67459838 -1.9592504
8 -0.16254632]
Round9262-------squared error: 3.9131 parameter: [18.398       0.67459825 -1.9592506
-0.1625463 ]
Round9263-------squared error: 3.9131 parameter: [18.398       0.67459812 -1.9592507
1 -0.16254628]
Round9264-------squared error: 3.9131 parameter: [18.398       0.67459799 -1.9592508
3 -0.16254626]
Round9265-------squared error: 3.9131 parameter: [18.398       0.67459786 -1.9592509
5 -0.16254624]
Round9266-------squared error: 3.9131 parameter: [18.398       0.67459773 -1.9592510
6 -0.16254622]
Round9267-------squared error: 3.9131 parameter: [18.398       0.6745976  -1.9592511
8 -0.1625462 ]
Round9268-------squared error: 3.9131 parameter: [18.398       0.67459747 -1.9592513
-0.16254618]
Round9269-------squared error: 3.9131 parameter: [18.398       0.67459735 -1.9592514
1 -0.16254616]
Round9270-------squared error: 3.9131 parameter: [18.398       0.67459722 -1.9592515
3 -0.16254614]
Round9271-------squared error: 3.9131 parameter: [18.398       0.67459709 -1.9592516
5 -0.16254612]
Round9272-------squared error: 3.9131 parameter: [18.398       0.67459696 -1.9592517
6 -0.1625461 ]
Round9273-------squared error: 3.9131 parameter: [18.398       0.67459683 -1.9592518
8 -0.16254608]
Round9274-------squared error: 3.9131 parameter: [18.398       0.6745967  -1.9592519
9 -0.16254606]
Round9275-------squared error: 3.9131 parameter: [18.398       0.67459658 -1.9592521
1 -0.16254604]
Round9276-------squared error: 3.9131 parameter: [18.398       0.67459645 -1.9592522
3 -0.16254602]
Round9277-------squared error: 3.9131 parameter: [18.398       0.67459632 -1.9592523
4 -0.162546  ]
Round9278-------squared error: 3.9131 parameter: [18.398       0.67459619 -1.9592524
6 -0.16254598]
Round9279-------squared error: 3.9131 parameter: [18.398       0.67459607 -1.9592525
7 -0.16254596]
Round9280-------squared error: 3.9131 parameter: [18.398       0.67459594 -1.9592526
9 -0.16254595]
```

```
Round9281-------squared error: 3.9131 parameter: [18.398       0.67459581 -1.9592528
-0.16254593]
Round9282-------squared error: 3.9131 parameter: [18.398       0.67459569 -1.9592529
2 -0.16254591]
Round9283-------squared error: 3.9131 parameter: [18.398       0.67459556 -1.9592530
3 -0.16254589]
Round9284-------squared error: 3.9131 parameter: [18.398       0.67459543 -1.9592531
5 -0.16254587]
Round9285-------squared error: 3.9131 parameter: [18.398       0.67459531 -1.9592532
6 -0.16254585]
Round9286-------squared error: 3.9131 parameter: [18.398       0.67459518 -1.9592533
8 -0.16254583]
Round9287-------squared error: 3.9131 parameter: [18.398       0.67459505 -1.9592534
9 -0.16254581]
Round9288-------squared error: 3.9131 parameter: [18.398       0.67459493 -1.9592536
-0.16254579]
Round9289-------squared error: 3.9131 parameter: [18.398       0.6745948  -1.9592537
2 -0.16254577]
Round9290-------squared error: 3.9131 parameter: [18.398       0.67459467 -1.9592538
3 -0.16254575]
Round9291-------squared error: 3.9131 parameter: [18.398       0.67459455 -1.9592539
5 -0.16254573]
Round9292-------squared error: 3.9131 parameter: [18.398       0.67459442 -1.9592540
6 -0.16254571]
Round9293-------squared error: 3.9131 parameter: [18.398       0.6745943  -1.9592541
7 -0.16254569]
Round9294-------squared error: 3.9131 parameter: [18.398       0.67459417 -1.9592542
9 -0.16254568]
Round9295-------squared error: 3.9131 parameter: [18.398       0.67459405 -1.9592544
-0.16254566]
Round9296-------squared error: 3.9131 parameter: [18.398       0.67459392 -1.9592545
1 -0.16254564]
Round9297-------squared error: 3.9131 parameter: [18.398       0.6745938  -1.9592546
3 -0.16254562]
Round9298-------squared error: 3.9131 parameter: [18.398       0.67459367 -1.9592547
4 -0.1625456 ]
Round9299-------squared error: 3.9131 parameter: [18.398       0.67459355 -1.9592548
5 -0.16254558]
Round9300-------squared error: 3.9131 parameter: [18.398       0.67459342 -1.9592549
7 -0.16254556]
Round9301-------squared error: 3.9131 parameter: [18.398       0.6745933  -1.9592550
8 -0.16254554]
Round9302-------squared error: 3.9131 parameter: [18.398       0.67459317 -1.9592551
9 -0.16254552]
Round9303-------squared error: 3.9131 parameter: [18.398       0.67459305 -1.9592553
1 -0.1625455 ]
Round9304-------squared error: 3.9131 parameter: [18.398       0.67459292 -1.9592554
2 -0.16254548]
Round9305-------squared error: 3.9131 parameter: [18.398       0.6745928  -1.9592555
3 -0.16254547]
Round9306-------squared error: 3.9131 parameter: [18.398       0.67459267 -1.9592556
4 -0.16254545]
Round9307-------squared error: 3.9131 parameter: [18.398       0.67459255 -1.9592557
6 -0.16254543]
Round9308-------squared error: 3.9131 parameter: [18.398       0.67459243 -1.9592558
7 -0.16254541]
Round9309-------squared error: 3.9131 parameter: [18.398       0.6745923  -1.9592559
8 -0.16254539]
Round9310-------squared error: 3.9131 parameter: [18.398       0.67459218 -1.9592560
9 -0.16254537]
Round9311-------squared error: 3.9131 parameter: [18.398       0.67459206 -1.9592562
-0.16254535]
Round9312-------squared error: 3.9131 parameter: [18.398       0.67459193 -1.9592563
1 -0.16254533]
```

```
Round9313-------squared error: 3.9131 parameter: [18.398       0.67459181 -1.9592564
3 -0.16254531]
Round9314-------squared error: 3.9131 parameter: [18.398       0.67459169 -1.9592565
4 -0.1625453 ]
Round9315-------squared error: 3.9131 parameter: [18.398       0.67459156 -1.9592566
5 -0.16254528]
Round9316-------squared error: 3.9131 parameter: [18.398       0.67459144 -1.9592567
6 -0.16254526]
Round9317-------squared error: 3.9131 parameter: [18.398       0.67459132 -1.9592568
7 -0.16254524]
Round9318-------squared error: 3.9131 parameter: [18.398       0.6745912  -1.9592569
8 -0.16254522]
Round9319-------squared error: 3.9131 parameter: [18.398       0.67459107 -1.9592570
9 -0.1625452 ]
Round9320-------squared error: 3.9131 parameter: [18.398       0.67459095 -1.9592572
-0.16254518]
Round9321-------squared error: 3.9131 parameter: [18.398       0.67459083 -1.9592573
2 -0.16254516]
Round9322-------squared error: 3.9131 parameter: [18.398       0.67459071 -1.9592574
3 -0.16254515]
Round9323-------squared error: 3.9131 parameter: [18.398       0.67459058 -1.9592575
4 -0.16254513]
Round9324-------squared error: 3.9131 parameter: [18.398       0.67459046 -1.9592576
5 -0.16254511]
Round9325-------squared error: 3.9131 parameter: [18.398       0.67459034 -1.9592577
6 -0.16254509]
Round9326-------squared error: 3.9131 parameter: [18.398       0.67459022 -1.9592578
7 -0.16254507]
Round9327-------squared error: 3.9131 parameter: [18.398       0.6745901  -1.9592579
8 -0.16254505]
Round9328-------squared error: 3.9131 parameter: [18.398       0.67458998 -1.9592580
9 -0.16254503]
Round9329-------squared error: 3.9131 parameter: [18.398       0.67458985 -1.9592582
-0.16254502]
Round9330-------squared error: 3.9131 parameter: [18.398       0.67458973 -1.9592583
1 -0.162545  ]
Round9331-------squared error: 3.9131 parameter: [18.398       0.67458961 -1.9592584
2 -0.16254498]
Round9332-------squared error: 3.9131 parameter: [18.398       0.67458949 -1.9592585
3 -0.16254496]
Round9333-------squared error: 3.9131 parameter: [18.398       0.67458937 -1.9592586
4 -0.16254494]
Round9334-------squared error: 3.9131 parameter: [18.398       0.67458925 -1.9592587
4 -0.16254492]
Round9335-------squared error: 3.9131 parameter: [18.398       0.67458913 -1.9592588
5 -0.1625449 ]
Round9336-------squared error: 3.9131 parameter: [18.398       0.67458901 -1.9592589
6 -0.16254489]
Round9337-------squared error: 3.9131 parameter: [18.398       0.67458889 -1.9592590
7 -0.16254487]
Round9338-------squared error: 3.9131 parameter: [18.398       0.67458877 -1.9592591
8 -0.16254485]
Round9339-------squared error: 3.9131 parameter: [18.398       0.67458865 -1.9592592
9 -0.16254483]
Round9340-------squared error: 3.9131 parameter: [18.398       0.67458853 -1.9592594
-0.16254481]
Round9341-------squared error: 3.9131 parameter: [18.398       0.67458841 -1.9592595
1 -0.16254479]
Round9342-------squared error: 3.9131 parameter: [18.398       0.67458829 -1.9592596
2 -0.16254478]
Round9343-------squared error: 3.9131 parameter: [18.398       0.67458817 -1.9592597
2 -0.16254476]
Round9344-------squared error: 3.9131 parameter: [18.398       0.67458805 -1.9592598
3 -0.16254474]
```

```
Round9345-------squared error: 3.9131 parameter: [18.398       0.67458793 -1.9592599
4 -0.16254472]
Round9346-------squared error: 3.9131 parameter: [18.398       0.67458781 -1.9592600
5 -0.1625447 ]
Round9347-------squared error: 3.9131 parameter: [18.398       0.67458769 -1.9592601
6 -0.16254469]
Round9348-------squared error: 3.9131 parameter: [18.398       0.67458757 -1.9592602
6 -0.16254467]
Round9349-------squared error: 3.9131 parameter: [18.398       0.67458745 -1.9592603
7 -0.16254465]
Round9350-------squared error: 3.9131 parameter: [18.398       0.67458733 -1.9592604
8 -0.16254463]
Round9351-------squared error: 3.9131 parameter: [18.398       0.67458721 -1.9592605
9 -0.16254461]
Round9352-------squared error: 3.9131 parameter: [18.398       0.67458709 -1.9592606
9 -0.16254459]
Round9353-------squared error: 3.9131 parameter: [18.398       0.67458698 -1.9592608
-0.16254458]
Round9354-------squared error: 3.9131 parameter: [18.398       0.67458686 -1.9592609
1 -0.16254456]
Round9355-------squared error: 3.9131 parameter: [18.398       0.67458674 -1.9592610
2 -0.16254454]
Round9356-------squared error: 3.9131 parameter: [18.398       0.67458662 -1.9592611
2 -0.16254452]
Round9357-------squared error: 3.9131 parameter: [18.398       0.6745865  -1.9592612
3 -0.1625445 ]
Round9358-------squared error: 3.9131 parameter: [18.398       0.67458638 -1.9592613
4 -0.16254449]
Round9359-------squared error: 3.9131 parameter: [18.398       0.67458627 -1.9592614
4 -0.16254447]
Round9360-------squared error: 3.9131 parameter: [18.398       0.67458615 -1.9592615
5 -0.16254445]
Round9361-------squared error: 3.9131 parameter: [18.398       0.67458603 -1.9592616
6 -0.16254443]
Round9362-------squared error: 3.9131 parameter: [18.398       0.67458591 -1.9592617
6 -0.16254441]
Round9363-------squared error: 3.9131 parameter: [18.398       0.6745858  -1.9592618
7 -0.1625444 ]
Round9364-------squared error: 3.9131 parameter: [18.398       0.67458568 -1.9592619
8 -0.16254438]
Round9365-------squared error: 3.9131 parameter: [18.398       0.67458556 -1.9592620
8 -0.16254436]
Round9366-------squared error: 3.9131 parameter: [18.398       0.67458544 -1.9592621
9 -0.16254434]
Round9367-------squared error: 3.9131 parameter: [18.398       0.67458533 -1.9592622
9 -0.16254432]
Round9368-------squared error: 3.9131 parameter: [18.398       0.67458521 -1.9592624
-0.16254431]
Round9369-------squared error: 3.9131 parameter: [18.398       0.67458509 -1.9592625
1 -0.16254429]
Round9370-------squared error: 3.9131 parameter: [18.398       0.67458498 -1.9592626
1 -0.16254427]
Round9371-------squared error: 3.9131 parameter: [18.398       0.67458486 -1.9592627
2 -0.16254425]
Round9372-------squared error: 3.9131 parameter: [18.398       0.67458474 -1.9592628
2 -0.16254424]
Round9373-------squared error: 3.9131 parameter: [18.398       0.67458463 -1.9592629
3 -0.16254422]
Round9374-------squared error: 3.9131 parameter: [18.398       0.67458451 -1.9592630
3 -0.1625442 ]
Round9375-------squared error: 3.9131 parameter: [18.398       0.6745844  -1.9592631
4 -0.16254418]
Round9376-------squared error: 3.9131 parameter: [18.398       0.67458428 -1.9592632
4 -0.16254416]
```

```
Round9377-------squared error: 3.9131 parameter: [18.398       0.67458416 -1.9592633
5 -0.16254415]
Round9378-------squared error: 3.9131 parameter: [18.398       0.67458405 -1.9592634
5 -0.16254413]
Round9379-------squared error: 3.9131 parameter: [18.398       0.67458393 -1.9592635
6 -0.16254411]
Round9380-------squared error: 3.9131 parameter: [18.398       0.67458382 -1.9592636
6 -0.16254409]
Round9381-------squared error: 3.9131 parameter: [18.398       0.6745837  -1.9592637
7 -0.16254408]
Round9382-------squared error: 3.9131 parameter: [18.398       0.67458359 -1.9592638
7 -0.16254406]
Round9383-------squared error: 3.9131 parameter: [18.398       0.67458347 -1.9592639
8 -0.16254404]
Round9384-------squared error: 3.9131 parameter: [18.398       0.67458336 -1.9592640
8 -0.16254402]
Round9385-------squared error: 3.9131 parameter: [18.398       0.67458324 -1.9592641
8 -0.16254401]
Round9386-------squared error: 3.9131 parameter: [18.398       0.67458313 -1.9592642
9 -0.16254399]
Round9387-------squared error: 3.9131 parameter: [18.398       0.67458301 -1.9592643
9 -0.16254397]
Round9388-------squared error: 3.9131 parameter: [18.398       0.6745829  -1.9592644
9 -0.16254395]
Round9389-------squared error: 3.9131 parameter: [18.398       0.67458278 -1.9592646
-0.16254394]
Round9390-------squared error: 3.9131 parameter: [18.398       0.67458267 -1.9592647
-0.16254392]
Round9391-------squared error: 3.9131 parameter: [18.398       0.67458255 -1.9592648
1 -0.1625439 ]
Round9392-------squared error: 3.9131 parameter: [18.398       0.67458244 -1.9592649
1 -0.16254388]
Round9393-------squared error: 3.9131 parameter: [18.398       0.67458233 -1.9592650
1 -0.16254387]
Round9394-------squared error: 3.9131 parameter: [18.398       0.67458221 -1.9592651
2 -0.16254385]
Round9395-------squared error: 3.9131 parameter: [18.398       0.6745821  -1.9592652
2 -0.16254383]
Round9396-------squared error: 3.9131 parameter: [18.398       0.67458198 -1.9592653
2 -0.16254381]
Round9397-------squared error: 3.9131 parameter: [18.398       0.67458187 -1.9592654
2 -0.1625438 ]
Round9398-------squared error: 3.9131 parameter: [18.398       0.67458176 -1.9592655
3 -0.16254378]
Round9399-------squared error: 3.9131 parameter: [18.398       0.67458164 -1.9592656
3 -0.16254376]
Round9400-------squared error: 3.9131 parameter: [18.398       0.67458153 -1.9592657
3 -0.16254374]
Round9401-------squared error: 3.9131 parameter: [18.398       0.67458142 -1.9592658
4 -0.16254373]
Round9402-------squared error: 3.9131 parameter: [18.398       0.6745813  -1.9592659
4 -0.16254371]
Round9403-------squared error: 3.9131 parameter: [18.398       0.67458119 -1.9592660
4 -0.16254369]
Round9404-------squared error: 3.9131 parameter: [18.398       0.67458108 -1.9592661
4 -0.16254368]
Round9405-------squared error: 3.9131 parameter: [18.398       0.67458096 -1.9592662
4 -0.16254366]
Round9406-------squared error: 3.9131 parameter: [18.398       0.67458085 -1.9592663
5 -0.16254364]
Round9407-------squared error: 3.9131 parameter: [18.398       0.67458074 -1.9592664
5 -0.16254362]
Round9408-------squared error: 3.9131 parameter: [18.398       0.67458063 -1.9592665
5 -0.16254361]
```

```
Round9409-------squared error: 3.9131 parameter: [18.398       0.67458051 -1.9592666
5 -0.16254359]
Round9410-------squared error: 3.9131 parameter: [18.398       0.6745804  -1.9592667
5 -0.16254357]
Round9411-------squared error: 3.9131 parameter: [18.398       0.67458029 -1.9592668
5 -0.16254355]
Round9412-------squared error: 3.9131 parameter: [18.398       0.67458018 -1.9592669
6 -0.16254354]
Round9413-------squared error: 3.9131 parameter: [18.398       0.67458007 -1.9592670
6 -0.16254352]
Round9414-------squared error: 3.9131 parameter: [18.398       0.67457995 -1.9592671
6 -0.1625435 ]
Round9415-------squared error: 3.9131 parameter: [18.398       0.67457984 -1.9592672
6 -0.16254349]
Round9416-------squared error: 3.9131 parameter: [18.398       0.67457973 -1.9592673
6 -0.16254347]
Round9417-------squared error: 3.9131 parameter: [18.398       0.67457962 -1.9592674
6 -0.16254345]
Round9418-------squared error: 3.9131 parameter: [18.398       0.67457951 -1.9592675
6 -0.16254344]
Round9419-------squared error: 3.9131 parameter: [18.398       0.6745794  -1.9592676
6 -0.16254342]
Round9420-------squared error: 3.9131 parameter: [18.398       0.67457929 -1.9592677
6 -0.1625434 ]
Round9421-------squared error: 3.9131 parameter: [18.398       0.67457917 -1.9592678
6 -0.16254338]
Round9422-------squared error: 3.9131 parameter: [18.398       0.67457906 -1.9592679
7 -0.16254337]
Round9423-------squared error: 3.9131 parameter: [18.398       0.67457895 -1.9592680
7 -0.16254335]
Round9424-------squared error: 3.9131 parameter: [18.398       0.67457884 -1.9592681
7 -0.16254333]
Round9425-------squared error: 3.9131 parameter: [18.398       0.67457873 -1.9592682
7 -0.16254332]
Round9426-------squared error: 3.9131 parameter: [18.398       0.67457862 -1.9592683
7 -0.1625433 ]
Round9427-------squared error: 3.9131 parameter: [18.398       0.67457851 -1.9592684
7 -0.16254328]
Round9428-------squared error: 3.9131 parameter: [18.398       0.6745784  -1.9592685
7 -0.16254327]
Round9429-------squared error: 3.9131 parameter: [18.398       0.67457829 -1.9592686
7 -0.16254325]
Round9430-------squared error: 3.9131 parameter: [18.398       0.67457818 -1.9592687
7 -0.16254323]
Round9431-------squared error: 3.9131 parameter: [18.398       0.67457807 -1.9592688
6 -0.16254322]
Round9432-------squared error: 3.9131 parameter: [18.398       0.67457796 -1.9592689
6 -0.1625432 ]
Round9433-------squared error: 3.9131 parameter: [18.398       0.67457785 -1.9592690
6 -0.16254318]
Round9434-------squared error: 3.9131 parameter: [18.398       0.67457774 -1.9592691
6 -0.16254317]
Round9435-------squared error: 3.9131 parameter: [18.398       0.67457763 -1.9592692
6 -0.16254315]
Round9436-------squared error: 3.9131 parameter: [18.398       0.67457752 -1.9592693
6 -0.16254313]
Round9437-------squared error: 3.9131 parameter: [18.398       0.67457741 -1.9592694
6 -0.16254312]
Round9438-------squared error: 3.9131 parameter: [18.398       0.6745773  -1.9592695
6 -0.1625431 ]
Round9439-------squared error: 3.9131 parameter: [18.398       0.67457719 -1.9592696
6 -0.16254308]
Round9440-------squared error: 3.9131 parameter: [18.398       0.67457708 -1.9592697
6 -0.16254307]
```

```
Round9441-------squared error: 3.9131 parameter: [18.398       0.67457698 -1.9592698
6 -0.16254305]
Round9442-------squared error: 3.9131 parameter: [18.398       0.67457687 -1.9592699
5 -0.16254303]
Round9443-------squared error: 3.9131 parameter: [18.398       0.67457676 -1.9592700
5 -0.16254302]
Round9444-------squared error: 3.9131 parameter: [18.398       0.67457665 -1.9592701
5 -0.162543  ]
Round9445-------squared error: 3.9131 parameter: [18.398       0.67457654 -1.9592702
5 -0.16254298]
Round9446-------squared error: 3.9131 parameter: [18.398       0.67457643 -1.9592703
5 -0.16254297]
Round9447-------squared error: 3.9131 parameter: [18.398       0.67457632 -1.9592704
5 -0.16254295]
Round9448-------squared error: 3.9131 parameter: [18.398       0.67457622 -1.9592705
4 -0.16254293]
Round9449-------squared error: 3.9131 parameter: [18.398       0.67457611 -1.9592706
4 -0.16254292]
Round9450-------squared error: 3.9131 parameter: [18.398       0.674576   -1.9592707
4 -0.1625429 ]
Round9451-------squared error: 3.9131 parameter: [18.398       0.67457589 -1.9592708
4 -0.16254288]
Round9452-------squared error: 3.9131 parameter: [18.398       0.67457578 -1.9592709
3 -0.16254287]
Round9453-------squared error: 3.9131 parameter: [18.398       0.67457568 -1.9592710
3 -0.16254285]
Round9454-------squared error: 3.9131 parameter: [18.398       0.67457557 -1.9592711
3 -0.16254283]
Round9455-------squared error: 3.9131 parameter: [18.398       0.67457546 -1.9592712
3 -0.16254282]
Round9456-------squared error: 3.9131 parameter: [18.398       0.67457535 -1.9592713
2 -0.1625428 ]
Round9457-------squared error: 3.9131 parameter: [18.398       0.67457525 -1.9592714
2 -0.16254278]
Round9458-------squared error: 3.9131 parameter: [18.398       0.67457514 -1.9592715
2 -0.16254277]
Round9459-------squared error: 3.9131 parameter: [18.398       0.67457503 -1.9592716
1 -0.16254275]
Round9460-------squared error: 3.9131 parameter: [18.398       0.67457493 -1.9592717
1 -0.16254274]
Round9461-------squared error: 3.9131 parameter: [18.398       0.67457482 -1.9592718
1 -0.16254272]
Round9462-------squared error: 3.9131 parameter: [18.398       0.67457471 -1.9592719
-0.1625427 ]
Round9463-------squared error: 3.9131 parameter: [18.398       0.67457461 -1.959272
-0.16254269]
Round9464-------squared error: 3.9131 parameter: [18.398       0.6745745  -1.9592721
-0.16254267]
Round9465-------squared error: 3.9131 parameter: [18.398       0.67457439 -1.9592721
9 -0.16254265]
Round9466-------squared error: 3.9131 parameter: [18.398       0.67457429 -1.9592722
9 -0.16254264]
Round9467-------squared error: 3.9131 parameter: [18.398       0.67457418 -1.9592723
9 -0.16254262]
Round9468-------squared error: 3.9131 parameter: [18.398       0.67457407 -1.9592724
8 -0.16254261]
Round9469-------squared error: 3.9131 parameter: [18.398       0.67457397 -1.9592725
8 -0.16254259]
Round9470-------squared error: 3.9131 parameter: [18.398       0.67457386 -1.9592726
7 -0.16254257]
Round9471-------squared error: 3.9131 parameter: [18.398       0.67457376 -1.9592727
7 -0.16254256]
Round9472-------squared error: 3.9131 parameter: [18.398       0.67457365 -1.9592728
7 -0.16254254]
```

```
Round9473-------squared error: 3.9131 parameter: [18.398       0.67457354 -1.9592729
6 -0.16254252]
Round9474-------squared error: 3.9131 parameter: [18.398       0.67457344 -1.9592730
6 -0.16254251]
Round9475-------squared error: 3.9131 parameter: [18.398       0.67457333 -1.9592731
5 -0.16254249]
Round9476-------squared error: 3.9131 parameter: [18.398       0.67457323 -1.9592732
5 -0.16254248]
Round9477-------squared error: 3.9131 parameter: [18.398       0.67457312 -1.9592733
4 -0.16254246]
Round9478-------squared error: 3.9131 parameter: [18.398       0.67457302 -1.9592734
4 -0.16254244]
Round9479-------squared error: 3.9131 parameter: [18.398       0.67457291 -1.9592735
3 -0.16254243]
Round9480-------squared error: 3.9131 parameter: [18.398       0.67457281 -1.9592736
3 -0.16254241]
Round9481-------squared error: 3.9131 parameter: [18.398       0.6745727  -1.9592737
2 -0.1625424 ]
Round9482-------squared error: 3.9131 parameter: [18.398       0.6745726  -1.9592738
2 -0.16254238]
Round9483-------squared error: 3.9131 parameter: [18.398       0.67457249 -1.9592739
1 -0.16254236]
Round9484-------squared error: 3.9131 parameter: [18.398       0.67457239 -1.9592740
1 -0.16254235]
Round9485-------squared error: 3.9131 parameter: [18.398       0.67457228 -1.9592741
-0.16254233]
Round9486-------squared error: 3.9131 parameter: [18.398       0.67457218 -1.9592742
-0.16254232]
Round9487-------squared error: 3.9131 parameter: [18.398       0.67457208 -1.9592742
9 -0.1625423 ]
Round9488-------squared error: 3.9131 parameter: [18.398       0.67457197 -1.9592743
9 -0.16254228]
Round9489-------squared error: 3.9131 parameter: [18.398       0.67457187 -1.9592744
8 -0.16254227]
Round9490-------squared error: 3.9131 parameter: [18.398       0.67457176 -1.9592745
7 -0.16254225]
Round9491-------squared error: 3.9131 parameter: [18.398       0.67457166 -1.9592746
7 -0.16254224]
Round9492-------squared error: 3.9131 parameter: [18.398       0.67457156 -1.9592747
6 -0.16254222]
Round9493-------squared error: 3.9131 parameter: [18.398       0.67457145 -1.9592748
6 -0.16254221]
Round9494-------squared error: 3.9131 parameter: [18.398       0.67457135 -1.9592749
5 -0.16254219]
Round9495-------squared error: 3.9131 parameter: [18.398       0.67457125 -1.9592750
4 -0.16254217]
Round9496-------squared error: 3.9131 parameter: [18.398       0.67457114 -1.9592751
4 -0.16254216]
Round9497-------squared error: 3.9131 parameter: [18.398       0.67457104 -1.9592752
3 -0.16254214]
Round9498-------squared error: 3.9131 parameter: [18.398       0.67457094 -1.9592753
2 -0.16254213]
Round9499-------squared error: 3.9131 parameter: [18.398       0.67457083 -1.9592754
2 -0.16254211]
Round9500-------squared error: 3.9131 parameter: [18.398       0.67457073 -1.9592755
1 -0.16254209]
Round9501-------squared error: 3.9131 parameter: [18.398       0.67457063 -1.9592756
-0.16254208]
Round9502-------squared error: 3.9131 parameter: [18.398       0.67457053 -1.9592757
-0.16254206]
Round9503-------squared error: 3.9131 parameter: [18.398       0.67457042 -1.9592757
9 -0.16254205]
Round9504-------squared error: 3.9131 parameter: [18.398       0.67457032 -1.9592758
8 -0.16254203]
```

```
Round9505-------squared error: 3.9131 parameter: [18.398       0.67457022 -1.9592759
7 -0.16254202]
Round9506-------squared error: 3.9131 parameter: [18.398       0.67457012 -1.9592760
7 -0.162542  ]
Round9507-------squared error: 3.9131 parameter: [18.398       0.67457001 -1.9592761
6 -0.16254199]
Round9508-------squared error: 3.9131 parameter: [18.398       0.67456991 -1.9592762
5 -0.16254197]
Round9509-------squared error: 3.9131 parameter: [18.398       0.67456981 -1.9592763
4 -0.16254195]
Round9510-------squared error: 3.9131 parameter: [18.398       0.67456971 -1.9592764
4 -0.16254194]
Round9511-------squared error: 3.9131 parameter: [18.398       0.67456961 -1.9592765
3 -0.16254192]
Round9512-------squared error: 3.9131 parameter: [18.398       0.6745695  -1.9592766
2 -0.16254191]
Round9513-------squared error: 3.9131 parameter: [18.398       0.6745694  -1.9592767
1 -0.16254189]
Round9514-------squared error: 3.9131 parameter: [18.398       0.6745693  -1.9592768
-0.16254188]
Round9515-------squared error: 3.9131 parameter: [18.398       0.6745692  -1.9592769
-0.16254186]
Round9516-------squared error: 3.9131 parameter: [18.398       0.6745691  -1.9592769
9 -0.16254185]
Round9517-------squared error: 3.9131 parameter: [18.398       0.674569   -1.9592770
8 -0.16254183]
Round9518-------squared error: 3.9131 parameter: [18.398       0.67456889 -1.9592771
7 -0.16254181]
Round9519-------squared error: 3.9131 parameter: [18.398       0.67456879 -1.9592772
6 -0.1625418 ]
Round9520-------squared error: 3.9131 parameter: [18.398       0.67456869 -1.9592773
5 -0.16254178]
Round9521-------squared error: 3.9131 parameter: [18.398       0.67456859 -1.9592774
5 -0.16254177]
Round9522-------squared error: 3.9131 parameter: [18.398       0.67456849 -1.9592775
4 -0.16254175]
Round9523-------squared error: 3.9131 parameter: [18.398       0.67456839 -1.9592776
3 -0.16254174]
Round9524-------squared error: 3.9131 parameter: [18.398       0.67456829 -1.9592777
2 -0.16254172]
Round9525-------squared error: 3.9131 parameter: [18.398       0.67456819 -1.9592778
1 -0.16254171]
Round9526-------squared error: 3.9131 parameter: [18.398       0.67456809 -1.9592779
-0.16254169]
Round9527-------squared error: 3.9131 parameter: [18.398       0.67456799 -1.9592779
9 -0.16254168]
Round9528-------squared error: 3.9131 parameter: [18.398       0.67456789 -1.9592780
8 -0.16254166]
Round9529-------squared error: 3.9131 parameter: [18.398       0.67456779 -1.9592781
7 -0.16254165]
Round9530-------squared error: 3.9131 parameter: [18.398       0.67456769 -1.9592782
6 -0.16254163]
Round9531-------squared error: 3.9131 parameter: [18.398       0.67456759 -1.9592783
5 -0.16254161]
Round9532-------squared error: 3.9131 parameter: [18.398       0.67456749 -1.9592784
4 -0.1625416 ]
Round9533-------squared error: 3.9131 parameter: [18.398       0.67456739 -1.9592785
3 -0.16254158]
Round9534-------squared error: 3.9131 parameter: [18.398       0.67456729 -1.9592786
2 -0.16254157]
Round9535-------squared error: 3.9131 parameter: [18.398       0.67456719 -1.9592787
1 -0.16254155]
Round9536-------squared error: 3.9131 parameter: [18.398       0.67456709 -1.9592788
-0.16254154]
```

```
Round9537-------squared error: 3.9131 parameter: [18.398       0.67456699 -1.9592788
9 -0.16254152]
Round9538-------squared error: 3.9131 parameter: [18.398       0.67456689 -1.9592789
8 -0.16254151]
Round9539-------squared error: 3.9131 parameter: [18.398       0.67456679 -1.9592790
7 -0.16254149]
Round9540-------squared error: 3.9131 parameter: [18.398       0.67456669 -1.9592791
6 -0.16254148]
Round9541-------squared error: 3.9131 parameter: [18.398       0.6745666  -1.9592792
5 -0.16254146]
Round9542-------squared error: 3.9131 parameter: [18.398       0.6745665  -1.9592793
4 -0.16254145]
Round9543-------squared error: 3.9131 parameter: [18.398       0.6745664  -1.9592794
3 -0.16254143]
Round9544-------squared error: 3.9131 parameter: [18.398       0.6745663  -1.9592795
2 -0.16254142]
Round9545-------squared error: 3.9131 parameter: [18.398       0.6745662  -1.9592796
1 -0.1625414 ]
Round9546-------squared error: 3.9131 parameter: [18.398       0.6745661  -1.9592797
-0.16254139]
Round9547-------squared error: 3.9131 parameter: [18.398       0.674566   -1.9592797
9 -0.16254137]
Round9548-------squared error: 3.9131 parameter: [18.398       0.67456591 -1.9592798
8 -0.16254136]
Round9549-------squared error: 3.9131 parameter: [18.398       0.67456581 -1.9592799
7 -0.16254134]
Round9550-------squared error: 3.9131 parameter: [18.398       0.67456571 -1.9592800
6 -0.16254133]
Round9551-------squared error: 3.9131 parameter: [18.398       0.67456561 -1.9592801
4 -0.16254131]
Round9552-------squared error: 3.9131 parameter: [18.398       0.67456551 -1.9592802
3 -0.1625413 ]
Round9553-------squared error: 3.9131 parameter: [18.398       0.67456542 -1.9592803
2 -0.16254128]
Round9554-------squared error: 3.9131 parameter: [18.398       0.67456532 -1.9592804
1 -0.16254127]
Round9555-------squared error: 3.9131 parameter: [18.398       0.67456522 -1.9592805
-0.16254125]
Round9556-------squared error: 3.9131 parameter: [18.398       0.67456512 -1.9592805
9 -0.16254124]
Round9557-------squared error: 3.9131 parameter: [18.398       0.67456503 -1.9592806
7 -0.16254122]
Round9558-------squared error: 3.9131 parameter: [18.398       0.67456493 -1.9592807
6 -0.16254121]
Round9559-------squared error: 3.9131 parameter: [18.398       0.67456483 -1.9592808
5 -0.16254119]
Round9560-------squared error: 3.9131 parameter: [18.398       0.67456473 -1.9592809
4 -0.16254118]
Round9561-------squared error: 3.9131 parameter: [18.398       0.67456464 -1.9592810
3 -0.16254116]
Round9562-------squared error: 3.9131 parameter: [18.398       0.67456454 -1.9592811
1 -0.16254115]
Round9563-------squared error: 3.9131 parameter: [18.398       0.67456444 -1.9592812
-0.16254113]
Round9564-------squared error: 3.9131 parameter: [18.398       0.67456435 -1.9592812
9 -0.16254112]
Round9565-------squared error: 3.9131 parameter: [18.398       0.67456425 -1.9592813
8 -0.1625411 ]
Round9566-------squared error: 3.9131 parameter: [18.398       0.67456415 -1.9592814
6 -0.16254109]
Round9567-------squared error: 3.9131 parameter: [18.398       0.67456406 -1.9592815
5 -0.16254108]
Round9568-------squared error: 3.9131 parameter: [18.398       0.67456396 -1.9592816
4 -0.16254106]
```

```
Round9569-------squared error: 3.9131 parameter: [18.398       0.67456386 -1.9592817
3 -0.16254105]
Round9570-------squared error: 3.9131 parameter: [18.398       0.67456377 -1.9592818
1 -0.16254103]
Round9571-------squared error: 3.9131 parameter: [18.398       0.67456367 -1.9592819
-0.16254102]
Round9572-------squared error: 3.9131 parameter: [18.398       0.67456357 -1.9592819
9 -0.162541  ]
Round9573-------squared error: 3.9131 parameter: [18.398       0.67456348 -1.9592820
7 -0.16254099]
Round9574-------squared error: 3.9131 parameter: [18.398       0.67456338 -1.9592821
6 -0.16254097]
Round9575-------squared error: 3.9131 parameter: [18.398       0.67456329 -1.9592822
5 -0.16254096]
Round9576-------squared error: 3.9131 parameter: [18.398       0.67456319 -1.9592823
3 -0.16254094]
Round9577-------squared error: 3.9131 parameter: [18.398       0.6745631  -1.9592824
2 -0.16254093]
Round9578-------squared error: 3.9131 parameter: [18.398       0.674563   -1.9592825
1 -0.16254091]
Round9579-------squared error: 3.9131 parameter: [18.398       0.67456291 -1.9592825
9 -0.1625409 ]
Round9580-------squared error: 3.9131 parameter: [18.398       0.67456281 -1.9592826
8 -0.16254088]
Round9581-------squared error: 3.9131 parameter: [18.398       0.67456271 -1.9592827
7 -0.16254087]
Round9582-------squared error: 3.9131 parameter: [18.398       0.67456262 -1.9592828
5 -0.16254086]
Round9583-------squared error: 3.9131 parameter: [18.398       0.67456252 -1.9592829
4 -0.16254084]
Round9584-------squared error: 3.9131 parameter: [18.398       0.67456243 -1.9592830
2 -0.16254083]
Round9585-------squared error: 3.9131 parameter: [18.398       0.67456234 -1.9592831
1 -0.16254081]
Round9586-------squared error: 3.9131 parameter: [18.398       0.67456224 -1.9592832
-0.1625408 ]
Round9587-------squared error: 3.9131 parameter: [18.398       0.67456215 -1.9592832
8 -0.16254078]
Round9588-------squared error: 3.9131 parameter: [18.398       0.67456205 -1.9592833
7 -0.16254077]
Round9589-------squared error: 3.9131 parameter: [18.398       0.67456196 -1.9592834
5 -0.16254075]
Round9590-------squared error: 3.9131 parameter: [18.398       0.67456186 -1.9592835
4 -0.16254074]
Round9591-------squared error: 3.9131 parameter: [18.398       0.67456177 -1.9592836
2 -0.16254073]
Round9592-------squared error: 3.9131 parameter: [18.398       0.67456167 -1.9592837
1 -0.16254071]
Round9593-------squared error: 3.9131 parameter: [18.398       0.67456158 -1.9592837
9 -0.1625407 ]
Round9594-------squared error: 3.9131 parameter: [18.398       0.67456149 -1.9592838
8 -0.16254068]
Round9595-------squared error: 3.9131 parameter: [18.398       0.67456139 -1.9592839
6 -0.16254067]
Round9596-------squared error: 3.9131 parameter: [18.398       0.6745613  -1.9592840
5 -0.16254065]
Round9597-------squared error: 3.9131 parameter: [18.398       0.6745612  -1.9592841
3 -0.16254064]
Round9598-------squared error: 3.9131 parameter: [18.398       0.67456111 -1.9592842
2 -0.16254063]
Round9599-------squared error: 3.9131 parameter: [18.398       0.67456102 -1.9592843
-0.16254061]
Round9600-------squared error: 3.9131 parameter: [18.398       0.67456092 -1.9592843
9 -0.1625406 ]
```

```
Round9601-------squared error: 3.9131 parameter: [18.398       0.67456083 -1.9592844
7 -0.16254058]
Round9602-------squared error: 3.9131 parameter: [18.398       0.67456074 -1.9592845
6 -0.16254057]
Round9603-------squared error: 3.9131 parameter: [18.398       0.67456064 -1.9592846
4 -0.16254055]
Round9604-------squared error: 3.9131 parameter: [18.398       0.67456055 -1.9592847
3 -0.16254054]
Round9605-------squared error: 3.9131 parameter: [18.398       0.67456046 -1.9592848
1 -0.16254053]
Round9606-------squared error: 3.9131 parameter: [18.398       0.67456036 -1.9592848
9 -0.16254051]
Round9607-------squared error: 3.9131 parameter: [18.398       0.67456027 -1.9592849
8 -0.1625405 ]
Round9608-------squared error: 3.9131 parameter: [18.398       0.67456018 -1.9592850
6 -0.16254048]
Round9609-------squared error: 3.9131 parameter: [18.398       0.67456009 -1.9592851
5 -0.16254047]
Round9610-------squared error: 3.9131 parameter: [18.398       0.67455999 -1.9592852
3 -0.16254045]
Round9611-------squared error: 3.9131 parameter: [18.398       0.6745599  -1.9592853
1 -0.16254044]
Round9612-------squared error: 3.9131 parameter: [18.398       0.67455981 -1.9592854
-0.16254043]
Round9613-------squared error: 3.9131 parameter: [18.398       0.67455972 -1.9592854
8 -0.16254041]
Round9614-------squared error: 3.9131 parameter: [18.398       0.67455962 -1.9592855
6 -0.1625404 ]
Round9615-------squared error: 3.9131 parameter: [18.398       0.67455953 -1.9592856
5 -0.16254038]
Round9616-------squared error: 3.9131 parameter: [18.398       0.67455944 -1.9592857
3 -0.16254037]
Round9617-------squared error: 3.9131 parameter: [18.398       0.67455935 -1.9592858
1 -0.16254036]
Round9618-------squared error: 3.9131 parameter: [18.398       0.67455926 -1.9592859
-0.16254034]
Round9619-------squared error: 3.9131 parameter: [18.398       0.67455916 -1.9592859
8 -0.16254033]
Round9620-------squared error: 3.9131 parameter: [18.398       0.67455907 -1.9592860
6 -0.16254031]
Round9621-------squared error: 3.9131 parameter: [18.398       0.67455898 -1.9592861
5 -0.1625403 ]
Round9622-------squared error: 3.9131 parameter: [18.398       0.67455889 -1.9592862
3 -0.16254029]
Round9623-------squared error: 3.9131 parameter: [18.398       0.6745588  -1.9592863
1 -0.16254027]
Round9624-------squared error: 3.9131 parameter: [18.398       0.67455871 -1.9592863
9 -0.16254026]
Round9625-------squared error: 3.9131 parameter: [18.398       0.67455862 -1.9592864
8 -0.16254024]
Round9626-------squared error: 3.9131 parameter: [18.398       0.67455852 -1.9592865
6 -0.16254023]
Round9627-------squared error: 3.9131 parameter: [18.398       0.67455843 -1.9592866
4 -0.16254022]
Round9628-------squared error: 3.9131 parameter: [18.398       0.67455834 -1.9592867
2 -0.1625402 ]
Round9629-------squared error: 3.9131 parameter: [18.398       0.67455825 -1.9592868
1 -0.16254019]
Round9630-------squared error: 3.9131 parameter: [18.398       0.67455816 -1.9592868
9 -0.16254017]
Round9631-------squared error: 3.9131 parameter: [18.398       0.67455807 -1.9592869
7 -0.16254016]
Round9632-------squared error: 3.9131 parameter: [18.398       0.67455798 -1.9592870
5 -0.16254015]
```

```
Round9633-------squared error: 3.9131 parameter: [18.398       0.67455789 -1.9592871
3 -0.16254013]
Round9634-------squared error: 3.9131 parameter: [18.398       0.6745578  -1.9592872
2 -0.16254012]
Round9635-------squared error: 3.9131 parameter: [18.398       0.67455771 -1.9592873
-0.16254011]
Round9636-------squared error: 3.9131 parameter: [18.398       0.67455762 -1.9592873
8 -0.16254009]
Round9637-------squared error: 3.9131 parameter: [18.398       0.67455753 -1.9592874
6 -0.16254008]
Round9638-------squared error: 3.9131 parameter: [18.398       0.67455744 -1.9592875
4 -0.16254006]
Round9639-------squared error: 3.9131 parameter: [18.398       0.67455735 -1.9592876
2 -0.16254005]
Round9640-------squared error: 3.9131 parameter: [18.398       0.67455726 -1.9592877
1 -0.16254004]
Round9641-------squared error: 3.9131 parameter: [18.398       0.67455717 -1.9592877
9 -0.16254002]
Round9642-------squared error: 3.9131 parameter: [18.398       0.67455708 -1.9592878
7 -0.16254001]
Round9643-------squared error: 3.9131 parameter: [18.398       0.67455699 -1.9592879
5 -0.16254   ]
Round9644-------squared error: 3.9131 parameter: [18.398       0.6745569  -1.9592880
3 -0.16253998]
Round9645-------squared error: 3.9131 parameter: [18.398       0.67455681 -1.9592881
1 -0.16253997]
Round9646-------squared error: 3.9131 parameter: [18.398       0.67455672 -1.9592881
9 -0.16253995]
Round9647-------squared error: 3.9131 parameter: [18.398       0.67455663 -1.9592882
7 -0.16253994]
Round9648-------squared error: 3.9131 parameter: [18.398       0.67455654 -1.9592883
5 -0.16253993]
Round9649-------squared error: 3.9131 parameter: [18.398       0.67455645 -1.9592884
4 -0.16253991]
Round9650-------squared error: 3.9131 parameter: [18.398       0.67455636 -1.9592885
2 -0.1625399 ]
Round9651-------squared error: 3.9131 parameter: [18.398       0.67455627 -1.9592886
-0.16253989]
Round9652-------squared error: 3.9131 parameter: [18.398       0.67455619 -1.9592886
8 -0.16253987]
Round9653-------squared error: 3.9131 parameter: [18.398       0.6745561  -1.9592887
6 -0.16253986]
Round9654-------squared error: 3.9131 parameter: [18.398       0.67455601 -1.9592888
4 -0.16253985]
Round9655-------squared error: 3.9131 parameter: [18.398       0.67455592 -1.9592889
2 -0.16253983]
Round9656-------squared error: 3.9131 parameter: [18.398       0.67455583 -1.959289
-0.16253982]
Round9657-------squared error: 3.9131 parameter: [18.398       0.67455574 -1.9592890
8 -0.16253981]
Round9658-------squared error: 3.9131 parameter: [18.398       0.67455565 -1.9592891
6 -0.16253979]
Round9659-------squared error: 3.9131 parameter: [18.398       0.67455557 -1.9592892
4 -0.16253978]
Round9660-------squared error: 3.9131 parameter: [18.398       0.67455548 -1.9592893
2 -0.16253976]
Round9661-------squared error: 3.9131 parameter: [18.398       0.67455539 -1.9592894
-0.16253975]
Round9662-------squared error: 3.9131 parameter: [18.398       0.6745553  -1.9592894
8 -0.16253974]
Round9663-------squared error: 3.9131 parameter: [18.398       0.67455521 -1.9592895
6 -0.16253972]
Round9664-------squared error: 3.9131 parameter: [18.398       0.67455513 -1.9592896
4 -0.16253971]
```

```
Round9665-------squared error: 3.9131 parameter: [18.398       0.67455504 -1.9592897
2 -0.1625397 ]
Round9666-------squared error: 3.9131 parameter: [18.398       0.67455495 -1.9592898
-0.16253968]
Round9667-------squared error: 3.9131 parameter: [18.398       0.67455486 -1.9592898
8 -0.16253967]
Round9668-------squared error: 3.9131 parameter: [18.398       0.67455477 -1.9592899
5 -0.16253966]
Round9669-------squared error: 3.9131 parameter: [18.398       0.67455469 -1.9592900
3 -0.16253964]
Round9670-------squared error: 3.9131 parameter: [18.398       0.6745546  -1.9592901
1 -0.16253963]
Round9671-------squared error: 3.9131 parameter: [18.398       0.67455451 -1.9592901
9 -0.16253962]
Round9672-------squared error: 3.9131 parameter: [18.398       0.67455443 -1.9592902
7 -0.1625396 ]
Round9673-------squared error: 3.9131 parameter: [18.398       0.67455434 -1.9592903
5 -0.16253959]
Round9674-------squared error: 3.9131 parameter: [18.398       0.67455425 -1.9592904
3 -0.16253958]
Round9675-------squared error: 3.9131 parameter: [18.398       0.67455416 -1.9592905
1 -0.16253956]
Round9676-------squared error: 3.9131 parameter: [18.398       0.67455408 -1.9592905
9 -0.16253955]
Round9677-------squared error: 3.9131 parameter: [18.398       0.67455399 -1.9592906
6 -0.16253954]
Round9678-------squared error: 3.9131 parameter: [18.398       0.6745539  -1.9592907
4 -0.16253952]
Round9679-------squared error: 3.9131 parameter: [18.398       0.67455382 -1.9592908
2 -0.16253951]
Round9680-------squared error: 3.9131 parameter: [18.398       0.67455373 -1.9592909
-0.1625395 ]
Round9681-------squared error: 3.9131 parameter: [18.398       0.67455364 -1.9592909
8 -0.16253948]
Round9682-------squared error: 3.9131 parameter: [18.398       0.67455356 -1.9592910
6 -0.16253947]
Round9683-------squared error: 3.9131 parameter: [18.398       0.67455347 -1.9592911
3 -0.16253946]
Round9684-------squared error: 3.9131 parameter: [18.398       0.67455339 -1.9592912
1 -0.16253945]
Round9685-------squared error: 3.9131 parameter: [18.398       0.6745533  -1.9592912
9 -0.16253943]
Round9686-------squared error: 3.9131 parameter: [18.398       0.67455321 -1.9592913
7 -0.16253942]
Round9687-------squared error: 3.9131 parameter: [18.398       0.67455313 -1.9592914
5 -0.16253941]
Round9688-------squared error: 3.9131 parameter: [18.398       0.67455304 -1.9592915
2 -0.16253939]
Round9689-------squared error: 3.9131 parameter: [18.398       0.67455296 -1.9592916
-0.16253938]
Round9690-------squared error: 3.9131 parameter: [18.398       0.67455287 -1.9592916
8 -0.16253937]
Round9691-------squared error: 3.9131 parameter: [18.398       0.67455278 -1.9592917
6 -0.16253935]
Round9692-------squared error: 3.9131 parameter: [18.398       0.6745527  -1.9592918
3 -0.16253934]
Round9693-------squared error: 3.9131 parameter: [18.398       0.67455261 -1.9592919
1 -0.16253933]
Round9694-------squared error: 3.9131 parameter: [18.398       0.67455253 -1.9592919
9 -0.16253931]
Round9695-------squared error: 3.9131 parameter: [18.398       0.67455244 -1.9592920
7 -0.1625393 ]
Round9696-------squared error: 3.9131 parameter: [18.398       0.67455236 -1.9592921
4 -0.16253929]
```

```
Round9697-------squared error: 3.9131 parameter: [18.398       0.67455227 -1.9592922
2 -0.16253928]
Round9698-------squared error: 3.9131 parameter: [18.398       0.67455219 -1.9592923
-0.16253926]
Round9699-------squared error: 3.9131 parameter: [18.398       0.6745521  -1.9592923
7 -0.16253925]
Round9700-------squared error: 3.9131 parameter: [18.398       0.67455202 -1.9592924
5 -0.16253924]
Round9701-------squared error: 3.9131 parameter: [18.398       0.67455193 -1.9592925
3 -0.16253922]
Round9702-------squared error: 3.9131 parameter: [18.398       0.67455185 -1.9592926
-0.16253921]
Round9703-------squared error: 3.9131 parameter: [18.398       0.67455176 -1.9592926
8 -0.1625392 ]
Round9704-------squared error: 3.9131 parameter: [18.398       0.67455168 -1.9592927
6 -0.16253918]
Round9705-------squared error: 3.9131 parameter: [18.398       0.67455159 -1.9592928
3 -0.16253917]
Round9706-------squared error: 3.9131 parameter: [18.398       0.67455151 -1.9592929
1 -0.16253916]
Round9707-------squared error: 3.9131 parameter: [18.398       0.67455143 -1.9592929
9 -0.16253915]
Round9708-------squared error: 3.9131 parameter: [18.398       0.67455134 -1.9592930
6 -0.16253913]
Round9709-------squared error: 3.9131 parameter: [18.398       0.67455126 -1.9592931
4 -0.16253912]
Round9710-------squared error: 3.9131 parameter: [18.398       0.67455117 -1.9592932
2 -0.16253911]
Round9711-------squared error: 3.9131 parameter: [18.398       0.67455109 -1.9592932
9 -0.16253909]
Round9712-------squared error: 3.9131 parameter: [18.398       0.674551   -1.9592933
7 -0.16253908]
Round9713-------squared error: 3.9131 parameter: [18.398       0.67455092 -1.9592934
4 -0.16253907]
Round9714-------squared error: 3.9131 parameter: [18.398       0.67455084 -1.9592935
2 -0.16253906]
Round9715-------squared error: 3.9131 parameter: [18.398       0.67455075 -1.9592935
9 -0.16253904]
Round9716-------squared error: 3.9131 parameter: [18.398       0.67455067 -1.9592936
7 -0.16253903]
Round9717-------squared error: 3.9131 parameter: [18.398       0.67455059 -1.9592937
5 -0.16253902]
Round9718-------squared error: 3.9131 parameter: [18.398       0.6745505  -1.9592938
2 -0.162539  ]
Round9719-------squared error: 3.9131 parameter: [18.398       0.67455042 -1.9592939
-0.16253899]
Round9720-------squared error: 3.9131 parameter: [18.398       0.67455034 -1.9592939
7 -0.16253898]
Round9721-------squared error: 3.9131 parameter: [18.398       0.67455025 -1.9592940
5 -0.16253897]
Round9722-------squared error: 3.9131 parameter: [18.398       0.67455017 -1.9592941
2 -0.16253895]
Round9723-------squared error: 3.9131 parameter: [18.398       0.67455009 -1.9592942
-0.16253894]
Round9724-------squared error: 3.9131 parameter: [18.398       0.67455    -1.9592942
7 -0.16253893]
Round9725-------squared error: 3.9131 parameter: [18.398       0.67454992 -1.9592943
5 -0.16253892]
Round9726-------squared error: 3.9131 parameter: [18.398       0.67454984 -1.9592944
2 -0.1625389 ]
Round9727-------squared error: 3.9131 parameter: [18.398       0.67454976 -1.9592945
-0.16253889]
Round9728-------squared error: 3.9131 parameter: [18.398       0.67454967 -1.9592945
7 -0.16253888]
```

```
Round9729-------squared error: 3.9131 parameter: [18.398       0.67454959 -1.9592946
5 -0.16253887]
Round9730-------squared error: 3.9131 parameter: [18.398       0.67454951 -1.9592947
2 -0.16253885]
Round9731-------squared error: 3.9131 parameter: [18.398       0.67454943 -1.9592948
-0.16253884]
Round9732-------squared error: 3.9131 parameter: [18.398       0.67454934 -1.9592948
7 -0.16253883]
Round9733-------squared error: 3.9131 parameter: [18.398       0.67454926 -1.9592949
5 -0.16253882]
Round9734-------squared error: 3.9131 parameter: [18.398       0.67454918 -1.9592950
2 -0.1625388 ]
Round9735-------squared error: 3.9131 parameter: [18.398       0.6745491  -1.9592950
9 -0.16253879]
Round9736-------squared error: 3.9131 parameter: [18.398       0.67454902 -1.9592951
7 -0.16253878]
Round9737-------squared error: 3.9131 parameter: [18.398       0.67454893 -1.9592952
4 -0.16253876]
Round9738-------squared error: 3.9131 parameter: [18.398       0.67454885 -1.9592953
2 -0.16253875]
Round9739-------squared error: 3.9131 parameter: [18.398       0.67454877 -1.9592953
9 -0.16253874]
Round9740-------squared error: 3.9131 parameter: [18.398       0.67454869 -1.9592954
6 -0.16253873]
Round9741-------squared error: 3.9131 parameter: [18.398       0.67454861 -1.9592955
4 -0.16253872]
Round9742-------squared error: 3.9131 parameter: [18.398       0.67454852 -1.9592956
1 -0.1625387 ]
Round9743-------squared error: 3.9131 parameter: [18.398       0.67454844 -1.9592956
9 -0.16253869]
Round9744-------squared error: 3.9131 parameter: [18.398       0.67454836 -1.9592957
6 -0.16253868]
Round9745-------squared error: 3.9131 parameter: [18.398       0.67454828 -1.9592958
3 -0.16253867]
Round9746-------squared error: 3.9131 parameter: [18.398       0.6745482  -1.9592959
1 -0.16253865]
Round9747-------squared error: 3.9131 parameter: [18.398       0.67454812 -1.9592959
8 -0.16253864]
Round9748-------squared error: 3.9131 parameter: [18.398       0.67454804 -1.9592960
5 -0.16253863]
Round9749-------squared error: 3.9131 parameter: [18.398       0.67454796 -1.9592961
3 -0.16253862]
Round9750-------squared error: 3.9131 parameter: [18.398       0.67454788 -1.9592962
-0.1625386 ]
Round9751-------squared error: 3.9131 parameter: [18.398       0.67454779 -1.9592962
7 -0.16253859]
Round9752-------squared error: 3.9131 parameter: [18.398       0.67454771 -1.9592963
5 -0.16253858]
Round9753-------squared error: 3.9131 parameter: [18.398       0.67454763 -1.9592964
2 -0.16253857]
Round9754-------squared error: 3.9131 parameter: [18.398       0.67454755 -1.9592964
9 -0.16253855]
Round9755-------squared error: 3.9131 parameter: [18.398       0.67454747 -1.9592965
7 -0.16253854]
Round9756-------squared error: 3.9131 parameter: [18.398       0.67454739 -1.9592966
4 -0.16253853]
Round9757-------squared error: 3.9131 parameter: [18.398       0.67454731 -1.9592967
1 -0.16253852]
Round9758-------squared error: 3.9131 parameter: [18.398       0.67454723 -1.9592967
8 -0.16253851]
Round9759-------squared error: 3.9131 parameter: [18.398       0.67454715 -1.9592968
6 -0.16253849]
Round9760-------squared error: 3.9131 parameter: [18.398       0.67454707 -1.9592969
3 -0.16253848]
```

```
Round9761-------squared error: 3.9131 parameter: [18.398       0.67454699 -1.959297
-0.16253847]
Round9762-------squared error: 3.9131 parameter: [18.398       0.67454691 -1.9592970
7 -0.16253846]
Round9763-------squared error: 3.9131 parameter: [18.398       0.67454683 -1.9592971
5 -0.16253844]
Round9764-------squared error: 3.9131 parameter: [18.398       0.67454675 -1.9592972
2 -0.16253843]
Round9765-------squared error: 3.9131 parameter: [18.398       0.67454667 -1.9592972
9 -0.16253842]
Round9766-------squared error: 3.9131 parameter: [18.398       0.67454659 -1.9592973
6 -0.16253841]
Round9767-------squared error: 3.9131 parameter: [18.398       0.67454651 -1.9592974
3 -0.1625384 ]
Round9768-------squared error: 3.9131 parameter: [18.398       0.67454643 -1.9592975
1 -0.16253838]
Round9769-------squared error: 3.9131 parameter: [18.398       0.67454635 -1.9592975
8 -0.16253837]
Round9770-------squared error: 3.9131 parameter: [18.398       0.67454627 -1.9592976
5 -0.16253836]
Round9771-------squared error: 3.9131 parameter: [18.398       0.67454619 -1.9592977
2 -0.16253835]
Round9772-------squared error: 3.9131 parameter: [18.398       0.67454612 -1.9592977
9 -0.16253833]
Round9773-------squared error: 3.9131 parameter: [18.398       0.67454604 -1.9592978
7 -0.16253832]
Round9774-------squared error: 3.9131 parameter: [18.398       0.67454596 -1.9592979
4 -0.16253831]
Round9775-------squared error: 3.9131 parameter: [18.398       0.67454588 -1.9592980
1 -0.1625383 ]
Round9776-------squared error: 3.9131 parameter: [18.398       0.6745458  -1.9592980
8 -0.16253829]
Round9777-------squared error: 3.9131 parameter: [18.398       0.67454572 -1.9592981
5 -0.16253827]
Round9778-------squared error: 3.9131 parameter: [18.398       0.67454564 -1.9592982
2 -0.16253826]
Round9779-------squared error: 3.9131 parameter: [18.398       0.67454556 -1.9592982
9 -0.16253825]
Round9780-------squared error: 3.9131 parameter: [18.398       0.67454548 -1.9592983
6 -0.16253824]
Round9781-------squared error: 3.9131 parameter: [18.398       0.67454541 -1.9592984
4 -0.16253823]
Round9782-------squared error: 3.9131 parameter: [18.398       0.67454533 -1.9592985
1 -0.16253821]
Round9783-------squared error: 3.9131 parameter: [18.398       0.67454525 -1.9592985
8 -0.1625382 ]
Round9784-------squared error: 3.9131 parameter: [18.398       0.67454517 -1.9592986
5 -0.16253819]
Round9785-------squared error: 3.9131 parameter: [18.398       0.67454509 -1.9592987
2 -0.16253818]
Round9786-------squared error: 3.9131 parameter: [18.398       0.67454501 -1.9592987
9 -0.16253817]
Round9787-------squared error: 3.9131 parameter: [18.398       0.67454494 -1.9592988
6 -0.16253815]
Round9788-------squared error: 3.9131 parameter: [18.398       0.67454486 -1.9592989
3 -0.16253814]
Round9789-------squared error: 3.9131 parameter: [18.398       0.67454478 -1.959299
-0.16253813]
Round9790-------squared error: 3.9131 parameter: [18.398       0.6745447  -1.9592990
7 -0.16253812]
Round9791-------squared error: 3.9131 parameter: [18.398       0.67454463 -1.9592991
4 -0.16253811]
Round9792-------squared error: 3.9131 parameter: [18.398       0.67454455 -1.9592992
1 -0.1625381 ]
```

```
Round9793-------squared error: 3.9131 parameter: [18.398       0.67454447 -1.9592992
8 -0.16253808]
Round9794-------squared error: 3.9131 parameter: [18.398       0.67454439 -1.9592993
5 -0.16253807]
Round9795-------squared error: 3.9131 parameter: [18.398       0.67454431 -1.9592994
2 -0.16253806]
Round9796-------squared error: 3.9131 parameter: [18.398       0.67454424 -1.9592994
9 -0.16253805]
Round9797-------squared error: 3.9131 parameter: [18.398       0.67454416 -1.9592995
6 -0.16253804]
Round9798-------squared error: 3.9131 parameter: [18.398       0.67454408 -1.9592996
3 -0.16253802]
Round9799-------squared error: 3.9131 parameter: [18.398       0.67454401 -1.9592997
-0.16253801]
Round9800-------squared error: 3.9131 parameter: [18.398       0.67454393 -1.9592997
7 -0.162538  ]
Round9801-------squared error: 3.9131 parameter: [18.398       0.67454385 -1.9592998
4 -0.16253799]
Round9802-------squared error: 3.9131 parameter: [18.398       0.67454377 -1.9592999
1 -0.16253798]
Round9803-------squared error: 3.9131 parameter: [18.398       0.6745437  -1.9592999
8 -0.16253797]
Round9804-------squared error: 3.9131 parameter: [18.398       0.67454362 -1.9593000
5 -0.16253795]
Round9805-------squared error: 3.9131 parameter: [18.398       0.67454354 -1.9593001
2 -0.16253794]
Round9806-------squared error: 3.9131 parameter: [18.398       0.67454347 -1.9593001
9 -0.16253793]
Round9807-------squared error: 3.9131 parameter: [18.398       0.67454339 -1.9593002
6 -0.16253792]
Round9808-------squared error: 3.9131 parameter: [18.398       0.67454331 -1.9593003
3 -0.16253791]
Round9809-------squared error: 3.9131 parameter: [18.398       0.67454324 -1.9593004
-0.1625379 ]
Round9810-------squared error: 3.9131 parameter: [18.398       0.67454316 -1.9593004
7 -0.16253788]
Round9811-------squared error: 3.9131 parameter: [18.398       0.67454309 -1.9593005
4 -0.16253787]
Round9812-------squared error: 3.9131 parameter: [18.398       0.67454301 -1.9593006
1 -0.16253786]
Round9813-------squared error: 3.9131 parameter: [18.398       0.67454293 -1.9593006
7 -0.16253785]
Round9814-------squared error: 3.9131 parameter: [18.398       0.67454286 -1.9593007
4 -0.16253784]
Round9815-------squared error: 3.9131 parameter: [18.398       0.67454278 -1.9593008
1 -0.16253783]
Round9816-------squared error: 3.9131 parameter: [18.398       0.67454271 -1.9593008
8 -0.16253781]
Round9817-------squared error: 3.9131 parameter: [18.398       0.67454263 -1.9593009
5 -0.1625378 ]
Round9818-------squared error: 3.9131 parameter: [18.398       0.67454255 -1.9593010
2 -0.16253779]
Round9819-------squared error: 3.9131 parameter: [18.398       0.67454248 -1.9593010
9 -0.16253778]
Round9820-------squared error: 3.9131 parameter: [18.398       0.6745424  -1.9593011
5 -0.16253777]
Round9821-------squared error: 3.9131 parameter: [18.398       0.67454233 -1.9593012
2 -0.16253776]
Round9822-------squared error: 3.9131 parameter: [18.398       0.67454225 -1.9593012
9 -0.16253774]
Round9823-------squared error: 3.9131 parameter: [18.398       0.67454218 -1.9593013
6 -0.16253773]
Round9824-------squared error: 3.9131 parameter: [18.398       0.6745421  -1.9593014
3 -0.16253772]
```

```
Round9825-------squared error: 3.9131 parameter: [18.398       0.67454203 -1.9593015
-0.16253771]
Round9826-------squared error: 3.9131 parameter: [18.398       0.67454195 -1.9593015
6 -0.1625377 ]
Round9827-------squared error: 3.9131 parameter: [18.398       0.67454188 -1.9593016
3 -0.16253769]
Round9828-------squared error: 3.9131 parameter: [18.398       0.6745418  -1.9593017
-0.16253768]
Round9829-------squared error: 3.9131 parameter: [18.398       0.67454173 -1.9593017
7 -0.16253766]
Round9830-------squared error: 3.9131 parameter: [18.398       0.67454165 -1.9593018
4 -0.16253765]
Round9831-------squared error: 3.9131 parameter: [18.398       0.67454158 -1.9593019
-0.16253764]
Round9832-------squared error: 3.9131 parameter: [18.398       0.6745415  -1.9593019
7 -0.16253763]
Round9833-------squared error: 3.9131 parameter: [18.398       0.67454143 -1.9593020
4 -0.16253762]
Round9834-------squared error: 3.9131 parameter: [18.398       0.67454135 -1.9593021
1 -0.16253761]
Round9835-------squared error: 3.9131 parameter: [18.398       0.67454128 -1.9593021
7 -0.1625376 ]
Round9836-------squared error: 3.9131 parameter: [18.398       0.6745412  -1.9593022
4 -0.16253758]
Round9837-------squared error: 3.9131 parameter: [18.398       0.67454113 -1.9593023
1 -0.16253757]
Round9838-------squared error: 3.9131 parameter: [18.398       0.67454105 -1.9593023
8 -0.16253756]
Round9839-------squared error: 3.9131 parameter: [18.398       0.67454098 -1.9593024
4 -0.16253755]
Round9840-------squared error: 3.9131 parameter: [18.398       0.67454091 -1.9593025
1 -0.16253754]
Round9841-------squared error: 3.9131 parameter: [18.398       0.67454083 -1.9593025
8 -0.16253753]
Round9842-------squared error: 3.9131 parameter: [18.398       0.67454076 -1.9593026
4 -0.16253752]
Round9843-------squared error: 3.9131 parameter: [18.398       0.67454068 -1.9593027
1 -0.1625375 ]
Round9844-------squared error: 3.9131 parameter: [18.398       0.67454061 -1.9593027
8 -0.16253749]
Round9845-------squared error: 3.9131 parameter: [18.398       0.67454054 -1.9593028
4 -0.16253748]
Round9846-------squared error: 3.9131 parameter: [18.398       0.67454046 -1.9593029
1 -0.16253747]
Round9847-------squared error: 3.9131 parameter: [18.398       0.67454039 -1.9593029
8 -0.16253746]
Round9848-------squared error: 3.9131 parameter: [18.398       0.67454031 -1.9593030
5 -0.16253745]
Round9849-------squared error: 3.9131 parameter: [18.398       0.67454024 -1.9593031
1 -0.16253744]
Round9850-------squared error: 3.9131 parameter: [18.398       0.67454017 -1.9593031
8 -0.16253743]
Round9851-------squared error: 3.9131 parameter: [18.398       0.67454009 -1.9593032
4 -0.16253741]
Round9852-------squared error: 3.9131 parameter: [18.398       0.67454002 -1.9593033
1 -0.1625374 ]
Round9853-------squared error: 3.9131 parameter: [18.398       0.67453995 -1.9593033
8 -0.16253739]
Round9854-------squared error: 3.9131 parameter: [18.398       0.67453987 -1.9593034
4 -0.16253738]
Round9855-------squared error: 3.9131 parameter: [18.398       0.6745398  -1.9593035
1 -0.16253737]
Round9856-------squared error: 3.9131 parameter: [18.398       0.67453973 -1.9593035
8 -0.16253736]
```

```
Round9857-------squared error: 3.9131 parameter: [18.398       0.67453966 -1.9593036
4 -0.16253735]
Round9858-------squared error: 3.9131 parameter: [18.398       0.67453958 -1.9593037
1 -0.16253734]
Round9859-------squared error: 3.9131 parameter: [18.398       0.67453951 -1.9593037
7 -0.16253733]
Round9860-------squared error: 3.9131 parameter: [18.398       0.67453944 -1.9593038
4 -0.16253731]
Round9861-------squared error: 3.9131 parameter: [18.398       0.67453936 -1.9593039
1 -0.1625373 ]
Round9862-------squared error: 3.9131 parameter: [18.398       0.67453929 -1.9593039
7 -0.16253729]
Round9863-------squared error: 3.9131 parameter: [18.398       0.67453922 -1.9593040
4 -0.16253728]
Round9864-------squared error: 3.9131 parameter: [18.398       0.67453915 -1.9593041
-0.16253727]
Round9865-------squared error: 3.9131 parameter: [18.398       0.67453907 -1.9593041
7 -0.16253726]
Round9866-------squared error: 3.9131 parameter: [18.398       0.674539   -1.9593042
3 -0.16253725]
Round9867-------squared error: 3.9131 parameter: [18.398       0.67453893 -1.9593043
-0.16253724]
Round9868-------squared error: 3.9131 parameter: [18.398       0.67453886 -1.9593043
6 -0.16253723]
Round9869-------squared error: 3.9131 parameter: [18.398       0.67453879 -1.9593044
3 -0.16253721]
Round9870-------squared error: 3.9131 parameter: [18.398       0.67453871 -1.9593044
9 -0.1625372 ]
Round9871-------squared error: 3.9131 parameter: [18.398       0.67453864 -1.9593045
6 -0.16253719]
Round9872-------squared error: 3.9131 parameter: [18.398       0.67453857 -1.9593046
3 -0.16253718]
Round9873-------squared error: 3.9131 parameter: [18.398       0.6745385  -1.9593046
9 -0.16253717]
Round9874-------squared error: 3.9131 parameter: [18.398       0.67453843 -1.9593047
6 -0.16253716]
Round9875-------squared error: 3.9131 parameter: [18.398       0.67453835 -1.9593048
2 -0.16253715]
Round9876-------squared error: 3.9131 parameter: [18.398       0.67453828 -1.9593048
8 -0.16253714]
Round9877-------squared error: 3.9131 parameter: [18.398       0.67453821 -1.9593049
5 -0.16253713]
Round9878-------squared error: 3.9131 parameter: [18.398       0.67453814 -1.9593050
1 -0.16253712]
Round9879-------squared error: 3.9131 parameter: [18.398       0.67453807 -1.9593050
8 -0.16253711]
Round9880-------squared error: 3.9131 parameter: [18.398       0.674538   -1.9593051
4 -0.16253709]
Round9881-------squared error: 3.9131 parameter: [18.398       0.67453793 -1.9593052
1 -0.16253708]
Round9882-------squared error: 3.9131 parameter: [18.398       0.67453785 -1.9593052
7 -0.16253707]
Round9883-------squared error: 3.9131 parameter: [18.398       0.67453778 -1.9593053
4 -0.16253706]
Round9884-------squared error: 3.9131 parameter: [18.398       0.67453771 -1.9593054
-0.16253705]
Round9885-------squared error: 3.9131 parameter: [18.398       0.67453764 -1.9593054
7 -0.16253704]
Round9886-------squared error: 3.9131 parameter: [18.398       0.67453757 -1.9593055
3 -0.16253703]
Round9887-------squared error: 3.9131 parameter: [18.398       0.6745375  -1.9593055
9 -0.16253702]
Round9888-------squared error: 3.9131 parameter: [18.398       0.67453743 -1.9593056
6 -0.16253701]
```

```
Round9889-------squared error: 3.9131 parameter: [18.398       0.67453736 -1.9593057
2 -0.162537  ]
Round9890-------squared error: 3.9131 parameter: [18.398       0.67453729 -1.9593057
9 -0.16253699]
Round9891-------squared error: 3.9131 parameter: [18.398       0.67453722 -1.9593058
5 -0.16253698]
Round9892-------squared error: 3.9131 parameter: [18.398       0.67453715 -1.9593059
1 -0.16253696]
Round9893-------squared error: 3.9131 parameter: [18.398       0.67453707 -1.9593059
8 -0.16253695]
Round9894-------squared error: 3.9131 parameter: [18.398       0.674537   -1.9593060
4 -0.16253694]
Round9895-------squared error: 3.9131 parameter: [18.398       0.67453693 -1.9593061
1 -0.16253693]
Round9896-------squared error: 3.9131 parameter: [18.398       0.67453686 -1.9593061
7 -0.16253692]
Round9897-------squared error: 3.9131 parameter: [18.398       0.67453679 -1.9593062
3 -0.16253691]
Round9898-------squared error: 3.9131 parameter: [18.398       0.67453672 -1.9593063
-0.1625369 ]
Round9899-------squared error: 3.9131 parameter: [18.398       0.67453665 -1.9593063
6 -0.16253689]
Round9900-------squared error: 3.9131 parameter: [18.398       0.67453658 -1.9593064
2 -0.16253688]
Round9901-------squared error: 3.9131 parameter: [18.398       0.67453651 -1.9593064
9 -0.16253687]
Round9902-------squared error: 3.9131 parameter: [18.398       0.67453644 -1.9593065
5 -0.16253686]
Round9903-------squared error: 3.9131 parameter: [18.398       0.67453637 -1.9593066
1 -0.16253685]
Round9904-------squared error: 3.9131 parameter: [18.398       0.6745363  -1.9593066
8 -0.16253684]
Round9905-------squared error: 3.9131 parameter: [18.398       0.67453623 -1.9593067
4 -0.16253683]
Round9906-------squared error: 3.9131 parameter: [18.398       0.67453616 -1.9593068
-0.16253681]
Round9907-------squared error: 3.9131 parameter: [18.398       0.6745361  -1.9593068
6 -0.1625368 ]
Round9908-------squared error: 3.9131 parameter: [18.398       0.67453603 -1.9593069
3 -0.16253679]
Round9909-------squared error: 3.9131 parameter: [18.398       0.67453596 -1.9593069
9 -0.16253678]
Round9910-------squared error: 3.9131 parameter: [18.398       0.67453589 -1.9593070
5 -0.16253677]
Round9911-------squared error: 3.9131 parameter: [18.398       0.67453582 -1.9593071
2 -0.16253676]
Round9912-------squared error: 3.9131 parameter: [18.398       0.67453575 -1.9593071
8 -0.16253675]
Round9913-------squared error: 3.9131 parameter: [18.398       0.67453568 -1.9593072
4 -0.16253674]
Round9914-------squared error: 3.9131 parameter: [18.398       0.67453561 -1.9593073
-0.16253673]
Round9915-------squared error: 3.9131 parameter: [18.398       0.67453554 -1.9593073
7 -0.16253672]
Round9916-------squared error: 3.9131 parameter: [18.398       0.67453547 -1.9593074
3 -0.16253671]
Round9917-------squared error: 3.9131 parameter: [18.398       0.6745354  -1.9593074
9 -0.1625367 ]
Round9918-------squared error: 3.9131 parameter: [18.398       0.67453533 -1.9593075
5 -0.16253669]
Round9919-------squared error: 3.9131 parameter: [18.398       0.67453527 -1.9593076
2 -0.16253668]
Round9920-------squared error: 3.9131 parameter: [18.398       0.6745352  -1.9593076
8 -0.16253667]
```

```
Round9921-------squared error: 3.9131 parameter: [18.398       0.67453513 -1.9593077
4 -0.16253666]
Round9922-------squared error: 3.9131 parameter: [18.398       0.67453506 -1.9593078
-0.16253665]
Round9923-------squared error: 3.9131 parameter: [18.398       0.67453499 -1.9593078
6 -0.16253664]
Round9924-------squared error: 3.9131 parameter: [18.398       0.67453492 -1.9593079
3 -0.16253662]
Round9925-------squared error: 3.9131 parameter: [18.398       0.67453485 -1.9593079
9 -0.16253661]
Round9926-------squared error: 3.9131 parameter: [18.398       0.67453479 -1.9593080
5 -0.1625366 ]
Round9927-------squared error: 3.9131 parameter: [18.398       0.67453472 -1.9593081
1 -0.16253659]
Round9928-------squared error: 3.9131 parameter: [18.398       0.67453465 -1.9593081
7 -0.16253658]
Round9929-------squared error: 3.9131 parameter: [18.398       0.67453458 -1.9593082
3 -0.16253657]
Round9930-------squared error: 3.9131 parameter: [18.398       0.67453451 -1.9593083
-0.16253656]
Round9931-------squared error: 3.9131 parameter: [18.398       0.67453445 -1.9593083
6 -0.16253655]
Round9932-------squared error: 3.9131 parameter: [18.398       0.67453438 -1.9593084
2 -0.16253654]
Round9933-------squared error: 3.9131 parameter: [18.398       0.67453431 -1.9593084
8 -0.16253653]
Round9934-------squared error: 3.9131 parameter: [18.398       0.67453424 -1.9593085
4 -0.16253652]
Round9935-------squared error: 3.9131 parameter: [18.398       0.67453418 -1.9593086
-0.16253651]
Round9936-------squared error: 3.9131 parameter: [18.398       0.67453411 -1.9593086
6 -0.1625365 ]
Round9937-------squared error: 3.9131 parameter: [18.398       0.67453404 -1.9593087
3 -0.16253649]
Round9938-------squared error: 3.9131 parameter: [18.398       0.67453397 -1.9593087
9 -0.16253648]
Round9939-------squared error: 3.9131 parameter: [18.398       0.6745339  -1.9593088
5 -0.16253647]
Round9940-------squared error: 3.9131 parameter: [18.398       0.67453384 -1.9593089
1 -0.16253646]
Round9941-------squared error: 3.9131 parameter: [18.398       0.67453377 -1.9593089
7 -0.16253645]
Round9942-------squared error: 3.9131 parameter: [18.398       0.6745337  -1.9593090
3 -0.16253644]
Round9943-------squared error: 3.9131 parameter: [18.398       0.67453364 -1.9593090
9 -0.16253643]
Round9944-------squared error: 3.9131 parameter: [18.398       0.67453357 -1.9593091
5 -0.16253642]
Round9945-------squared error: 3.9131 parameter: [18.398       0.6745335  -1.9593092
1 -0.16253641]
Round9946-------squared error: 3.9131 parameter: [18.398       0.67453343 -1.9593092
7 -0.1625364 ]
Round9947-------squared error: 3.9131 parameter: [18.398       0.67453337 -1.9593093
3 -0.16253639]
Round9948-------squared error: 3.9131 parameter: [18.398       0.6745333  -1.9593093
9 -0.16253638]
Round9949-------squared error: 3.9131 parameter: [18.398       0.67453323 -1.9593094
5 -0.16253637]
Round9950-------squared error: 3.9131 parameter: [18.398       0.67453317 -1.9593095
2 -0.16253636]
Round9951-------squared error: 3.9131 parameter: [18.398       0.6745331  -1.9593095
8 -0.16253635]
Round9952-------squared error: 3.9131 parameter: [18.398       0.67453303 -1.9593096
4 -0.16253634]
```

```
Round9953-------squared error: 3.9131 parameter: [18.398       0.67453297 -1.9593097
-0.16253633]
Round9954-------squared error: 3.9131 parameter: [18.398       0.6745329  -1.9593097
6 -0.16253632]
Round9955-------squared error: 3.9131 parameter: [18.398       0.67453283 -1.9593098
2 -0.16253631]
Round9956-------squared error: 3.9131 parameter: [18.398       0.67453277 -1.9593098
8 -0.1625363 ]
Round9957-------squared error: 3.9131 parameter: [18.398       0.6745327  -1.9593099
4 -0.16253629]
Round9958-------squared error: 3.9131 parameter: [18.398       0.67453264 -1.95931
-0.16253628]
Round9959-------squared error: 3.9131 parameter: [18.398       0.67453257 -1.9593100
6 -0.16253627]
Round9960-------squared error: 3.9131 parameter: [18.398       0.6745325  -1.9593101
2 -0.16253626]
Round9961-------squared error: 3.9131 parameter: [18.398       0.67453244 -1.9593101
8 -0.16253625]
Round9962-------squared error: 3.9131 parameter: [18.398       0.67453237 -1.9593102
4 -0.16253624]
Round9963-------squared error: 3.9131 parameter: [18.398       0.67453231 -1.9593103
-0.16253623]
Round9964-------squared error: 3.9131 parameter: [18.398       0.67453224 -1.9593103
5 -0.16253622]
Round9965-------squared error: 3.9131 parameter: [18.398       0.67453217 -1.9593104
1 -0.16253621]
Round9966-------squared error: 3.9131 parameter: [18.398       0.67453211 -1.9593104
7 -0.16253619]
Round9967-------squared error: 3.9131 parameter: [18.398       0.67453204 -1.9593105
3 -0.16253618]
Round9968-------squared error: 3.9131 parameter: [18.398       0.67453198 -1.9593105
9 -0.16253617]
Round9969-------squared error: 3.9131 parameter: [18.398       0.67453191 -1.9593106
5 -0.16253616]
Round9970-------squared error: 3.9131 parameter: [18.398       0.67453185 -1.9593107
1 -0.16253615]
Round9971-------squared error: 3.9131 parameter: [18.398       0.67453178 -1.9593107
7 -0.16253614]
Round9972-------squared error: 3.9131 parameter: [18.398       0.67453172 -1.9593108
3 -0.16253613]
Round9973-------squared error: 3.9131 parameter: [18.398       0.67453165 -1.9593108
9 -0.16253613]
Round9974-------squared error: 3.9131 parameter: [18.398       0.67453159 -1.9593109
5 -0.16253612]
Round9975-------squared error: 3.9131 parameter: [18.398       0.67453152 -1.9593110
1 -0.16253611]
Round9976-------squared error: 3.9131 parameter: [18.398       0.67453146 -1.9593110
7 -0.1625361 ]
Round9977-------squared error: 3.9131 parameter: [18.398       0.67453139 -1.9593111
2 -0.16253609]
Round9978-------squared error: 3.9131 parameter: [18.398       0.67453133 -1.9593111
8 -0.16253608]
Round9979-------squared error: 3.9131 parameter: [18.398       0.67453126 -1.9593112
4 -0.16253607]
Round9980-------squared error: 3.9131 parameter: [18.398       0.6745312  -1.9593113
-0.16253606]
Round9981-------squared error: 3.9131 parameter: [18.398       0.67453113 -1.9593113
6 -0.16253605]
Round9982-------squared error: 3.9131 parameter: [18.398       0.67453107 -1.9593114
2 -0.16253604]
Round9983-------squared error: 3.9131 parameter: [18.398       0.674531   -1.9593114
8 -0.16253603]
Round9984-------squared error: 3.9131 parameter: [18.398       0.67453094 -1.9593115
3 -0.16253602]
```

```
Round9985-------squared error: 3.9131 parameter: [18.398       0.67453087 -1.9593115
9 -0.16253601]
Round9986-------squared error: 3.9131 parameter: [18.398       0.67453081 -1.9593116
5 -0.162536  ]
Round9987-------squared error: 3.9131 parameter: [18.398       0.67453074 -1.9593117
1 -0.16253599]
Round9988-------squared error: 3.9131 parameter: [18.398       0.67453068 -1.9593117
7 -0.16253598]
Round9989-------squared error: 3.9131 parameter: [18.398       0.67453062 -1.9593118
3 -0.16253597]
Round9990-------squared error: 3.9131 parameter: [18.398       0.67453055 -1.9593118
8 -0.16253596]
Round9991-------squared error: 3.9131 parameter: [18.398       0.67453049 -1.9593119
4 -0.16253595]
Round9992-------squared error: 3.9131 parameter: [18.398       0.67453042 -1.959312
-0.16253594]
Round9993-------squared error: 3.9131 parameter: [18.398       0.67453036 -1.9593120
6 -0.16253593]
Round9994-------squared error: 3.9131 parameter: [18.398       0.67453029 -1.9593121
2 -0.16253592]
Round9995-------squared error: 3.9131 parameter: [18.398       0.67453023 -1.9593121
7 -0.16253591]
Round9996-------squared error: 3.9131 parameter: [18.398       0.67453017 -1.9593122
3 -0.1625359 ]
Round9997-------squared error: 3.9131 parameter: [18.398       0.6745301  -1.9593122
9 -0.16253589]
Round9998-------squared error: 3.9131 parameter: [18.398       0.67453004 -1.9593123
5 -0.16253588]
Round9999-------squared error: 3.9131 parameter: [18.398       0.67452998 -1.9593124
-0.16253587]
Round10000-------squared error: 3.9131 parameter: [18.398       0.67452991 -1.959312
46 -0.16253586]


Final result
```

Out[ ]:

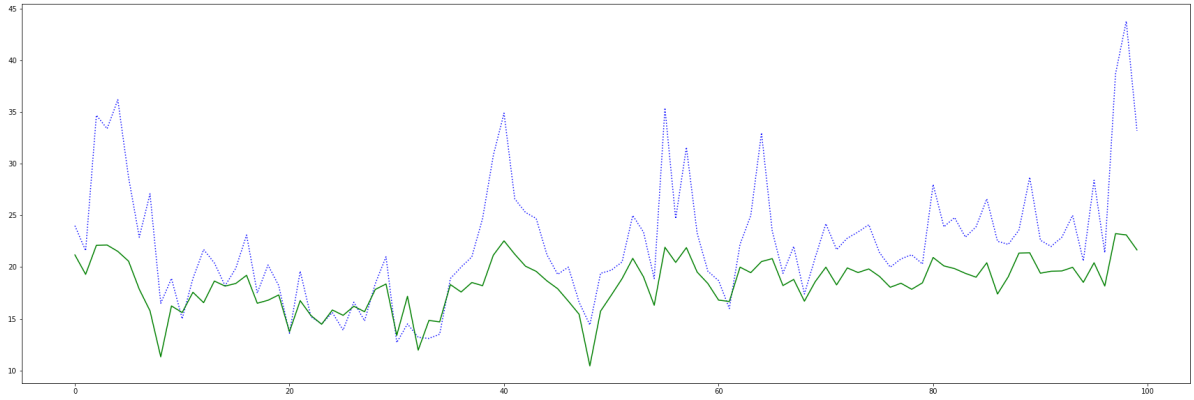
```
array([18.398     ,  0.67452991, -1.95931246, -0.16253586])
```

In [ ]:

```python
# Test results using test data

test_x = test[['RM','LSTAT','PTRATIO']]

# standardization
test_x = (test_x-test_x.mean()) / test_x.std()

# For the constant item parameter 0 corresponds to input 1
test_x = np.insert(test_x.to_numpy(), 0, 1, axis=1)

test_y = test['MEDV']


plt.figure(figsize=(30,10))
plt.plot(np.arange(0,test_x.shape[0]), test_y, c='b', linestyle=':')
plt.plot(np.arange(0,test_x.shape[0]), function(test_x), c='green', linestyle='-')
```

Out[ ]:

```
[<matplotlib.lines.Line2D at 0x1a1668b4c10>]
```


45
40
35
30
25
20
15
10
0
20
40
60
80
100

Ex4.3

In [ ]:
```
# Imports
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [ ]:
```
dataset = pd.read_csv('ex4_3_train.csv')
dataset2 = pd.read_csv('ex4_3_val.csv')
dataset3 = pd.read_csv('ex4_3_test.csv')
# spilt(x,y)
x_train = dataset.iloc[:,[0]].values
y_train =  dataset.iloc[:,[1]].values
x_val = dataset2.iloc[:,[0]].values
x_test = dataset3.iloc[:,[0]].values
y_val =  dataset2.iloc[:,[1]].values
y_test =  dataset3.iloc[:,[1]].values
x = x_train
x
```

Out[ ]:
```
array([[0.67617],
       [0.1308 ],
       [0.89631],
       [0.84971],
       [0.08061],
       [0.16107],
       [0.20518],
       [0.24813],
       [0.03688],
       [0.79355],
       [0.59199],
       [0.66897],
       [0.72757],
       [0.13881],
       [0.09378],
       [0.28845],
       [0.5713 ],
       [0.78853],
       [0.43217],
       [0.96281],
       [0.25144],
       [0.65929],
       [0.2101 ],
       [0.74713],
       [0.16187],
       [0.70124],
       [0.64351],
       [0.04   ],
       [0.48249],
       [0.13987],
       [0.20824],
       [0.96712],
       [0.77346],
       [0.20269],
       [0.02245],
       [0.64714],
       [0.41949],
       [0.36231],
       [0.72005],
       [0.60114],
       [0.89005],
       [0.0108 ],
       [0.77568],
       [0.91047],
       [0.86028],
       [0.9105 ],
       [0.64219],
       [0.35195],
       [0.62083],
       [0.38099],
       [0.9922 ],
       [0.12921],
       [0.19444],
       [0.84807],
       [0.89209],
       [0.83117],
       [0.68007],
       [0.09324],
       [0.05761]])
```

plot

In [ ]:
```
#  Plotting Functions
```

```
def evaluate_fits(order_list, mse_list):

  fig, ax = plt.subplots()
  ax.bar(order_list, mse_list)
  ax.set(title='Comparing Polynomial Fits', xlabel='Polynomial order', ylabel='MSE')

def plot_fitted_polynomials(x, y, theta_hat):
  x_grid = np.linspace(x.min() - .5, x.max() + .5)

  plt.figure()

  for order in range(0, max_order + 1):
    X_design = make_design_matrix(x_grid, order)
    plt.plot(x_grid, X_design @ theta_hat[order]);

  plt.ylabel('y')
  plt.xlabel('x')
  plt.plot(x, y, 'C0.');
  plt.legend([f'order {o}' for o in range(max_order + 1)], loc=1)
  plt.title('polynomial fits')
  plt.show()
```

$$\mathbf{X} = \left[\mathbf{1}, \mathbf{x}^1, \mathbf{x}^2, \ldots, \mathbf{x}^k\right],$$

1.make a design matrix

In [ ]:
```
def make_design_matrix(x, order):
 # Atleast shape (n x 1) can matrix work
  if x.ndim == 1:
    x = x[:, None]

  #if x has more than one feature
  # x^0 here
  design_matrix = np.ones((x.shape[0], 1))

  # Loop
  for degree in range(1, order + 1):
      design_matrix = np.hstack((design_matrix, x**degree))

  return design_matrix
```

Bsp

In [ ]:
```
order = 20
X_design = make_design_matrix(x, order)

print(X_design[0:20, 0:20])
```

```
[[1.00000000e+00 6.76170000e-01 4.57205869e-01 3.09148892e-01
  2.09037207e-01 1.41344688e-01 9.55730377e-02 6.46236209e-02
  4.36965537e-02 2.95462987e-02 1.99783208e-02 1.35087412e-02
  9.13420553e-03 6.17627575e-03 4.17621237e-03 2.82382952e-03
  1.90938881e-03 1.29107143e-03 8.72983769e-04 5.90285435e-04]
 [1.00000000e+00 1.30800000e-01 1.71086400e-02 2.23781011e-03
  2.92705563e-04 3.82858876e-05 5.00779410e-06 6.55019468e-07
  8.56765464e-08 1.12064923e-08 1.46580919e-09 1.91727842e-10
  2.50780017e-11 3.28020263e-12 4.29050503e-13 5.61198058e-14
  7.34047060e-15 9.60133555e-16 1.25585469e-16 1.64265793e-17]
 [1.00000000e+00 8.96310000e-01 8.03371616e-01 7.20070013e-01
  6.45405954e-01 5.78483810e-01 5.18500824e-01 4.64737474e-01
  4.16548845e-01 3.73356895e-01 3.34643519e-01 2.99944332e-01
  2.68843104e-01 2.40966763e-01 2.15980919e-01 1.93585858e-01
  1.73512940e-01 1.55521383e-01 1.39395371e-01 1.24941465e-01]
 [1.00000000e+00 8.49710000e-01 7.22007084e-01 6.13496639e-01
  5.21294229e-01 4.42948920e-01 3.76378127e-01 3.19812258e-01
  2.71747674e-01 2.30906716e-01 1.96203745e-01 1.66716285e-01
  1.41660494e-01 1.20370339e-01 1.02279880e-01 8.69082371e-02
  7.38467982e-02 6.27483629e-02 5.33179114e-02 4.53047625e-02]
 [1.00000000e+00 8.06100000e-02 6.49797210e-03 5.23801531e-04
  4.22236414e-05 3.40364773e-06 2.74368044e-07 2.21168080e-08
  1.78283589e-09 1.43714401e-10 1.15848179e-11 9.33852171e-13
  7.52778235e-14 6.06814535e-15 4.89153197e-16 3.94306392e-17
  3.17850383e-18 2.56219193e-19 2.06538292e-20 1.66490517e-21]
 [1.00000000e+00 1.61070000e-01 2.59435449e-02 4.17872678e-03
  6.73067522e-04 1.08410986e-04 1.74617575e-05 2.81256528e-06
  4.53019889e-07 7.29679135e-08 1.17529418e-08 1.89304634e-09
  3.04912974e-10 4.91123328e-11 7.91052344e-12 1.27414801e-12
  2.05227020e-13 3.30559161e-14 5.32431641e-15 8.57587644e-16]
 [1.00000000e+00 2.05180000e-01 4.20988324e-02 8.63783843e-03
  1.77231169e-03 3.63642912e-04 7.46122528e-05 1.53089420e-05
  3.14108872e-06 6.44488585e-07 1.32236168e-07 2.71322169e-08
  5.56698826e-09 1.14223465e-09 2.34363706e-10 4.80867452e-11
  9.86643838e-12 2.02439583e-12 4.15365536e-13 8.52247006e-14]
 [1.00000000e+00 2.48130000e-01 6.15684969e-02 1.52769911e-02
  3.79067981e-03 9.40581381e-04 2.33386458e-04 5.79101819e-05
  1.43692534e-05 3.56544285e-06 8.84693335e-07 2.19518957e-07
  5.44692389e-08 1.35154522e-08 3.35358916e-09 8.32126079e-10
  2.06475444e-10 5.12327519e-11 1.27123827e-11 3.15432353e-12]
 [1.00000000e+00 3.68800000e-02 1.36013440e-03 5.01617567e-05
  1.84996559e-06 6.82267308e-08 2.51620183e-09 9.27975236e-11
  3.42237267e-12 1.26217104e-13 4.65488680e-15 1.71672225e-16
  6.33127166e-18 2.33497299e-19 8.61138038e-21 3.17587709e-22
  1.17126347e-23 4.31961967e-25 1.59307574e-26 5.87526331e-28]
 [1.00000000e+00 7.93550000e-01 6.29721602e-01 4.99715578e-01
  3.96549297e-01 3.14681694e-01 2.49715659e-01 1.98161861e-01
  1.57251345e-01 1.24786805e-01 9.90245688e-02 7.85809465e-02
  6.23579101e-02 4.94841196e-02 3.92681231e-02 3.11612191e-02
  2.47279854e-02 1.96228928e-02 1.55717466e-02 1.23569595e-02]
 [1.00000000e+00 5.91990000e-01 3.50452160e-01 2.07464174e-01
  1.22816717e-01 7.27062680e-02 4.30413836e-02 2.54800687e-02
  1.50839459e-02 8.92954511e-03 5.28620141e-03 3.12937837e-03
  1.85256070e-03 1.09669741e-03 6.49233900e-04 3.84339976e-04
  2.27525423e-04 1.34692775e-04 7.97367758e-05 4.72033739e-05]
 [1.00000000e+00 6.68970000e-01 4.47520861e-01 2.99378030e-01
  2.00274921e-01 1.33977914e-01 8.96272050e-02 5.99579114e-02
  4.01100440e-02 2.68324161e-02 1.79500814e-02 1.20080660e-02
  8.03303588e-03 5.37386001e-03 3.59495113e-03 2.40491446e-03
  1.60881563e-03 1.07624939e-03 7.19978554e-04 4.81644053e-04]
 [1.00000000e+00 7.27570000e-01 5.29358105e-01 3.85145076e-01
  2.80220003e-01 2.03879668e-01 1.48336730e-01 1.07925355e-01
  7.85232502e-02 5.71311612e-02 4.15669189e-02 3.02428432e-02
  2.20037854e-02 1.60092942e-02 1.16478822e-02 8.47464962e-03
```

```
  6.16590082e-03 4.48612446e-03 3.26396957e-03 2.37476634e-03]
 [1.00000000e+00 1.38810000e-01 1.92682161e-02 2.67462108e-03
  3.71264152e-04 5.15351769e-05 7.15359790e-06 9.92990925e-07
  1.37837070e-07 1.91331637e-08 2.65587446e-09 3.68661933e-10
  5.11739630e-11 7.10345780e-12 9.86030977e-13 1.36870960e-13
  1.89990580e-14 2.63725923e-15 3.66077954e-16 5.08152808e-17]
 [1.00000000e+00 9.37800000e-02 8.79468840e-03 8.24765878e-04
  7.73465441e-05 7.25355890e-06 6.80238754e-07 6.37927903e-08
  5.98248788e-09 5.61037713e-10 5.26141167e-11 4.93415187e-12
  4.62724762e-13 4.33943282e-14 4.06952010e-15 3.81639595e-16
  3.57901612e-17 3.35640132e-18 3.14763316e-19 2.95185037e-20]
 [1.00000000e+00 2.88450000e-01 8.32034025e-02 2.40000215e-02
  6.92280619e-03 1.99688344e-03 5.76001030e-04 1.66147497e-04
  4.79252455e-05 1.38240371e-05 3.98754349e-06 1.15020692e-06
  3.31777186e-07 9.57011293e-08 2.76049908e-08 7.96265958e-09
  2.29682916e-09 6.62520370e-10 1.91104001e-10 5.51239490e-11]
 [1.00000000e+00 5.71300000e-01 3.26383690e-01 1.86463002e-01
  1.06526313e-01 6.08584827e-02 3.47684512e-02 1.98632161e-02
  1.13478554e-02 6.48302978e-03 3.70375491e-03 2.11595518e-03
  1.20884520e-03 6.90613260e-04 3.94547356e-04 2.25404904e-04
  1.28773822e-04 7.35684844e-05 4.20296751e-05 2.40115534e-05]
 [1.00000000e+00 7.88530000e-01 6.21779561e-01 4.90291837e-01
  3.86609822e-01 3.04853443e-01 2.40386086e-01 1.89551640e-01
  1.49467155e-01 1.17859336e-01 9.29356218e-02 7.32825259e-02
  5.77854701e-02 4.55655768e-02 3.59298243e-02 2.83317443e-02
  2.23404303e-02 1.76160995e-02 1.38908230e-02 1.09533306e-02]
 [1.00000000e+00 4.32170000e-01 1.86770909e-01 8.07167837e-02
  3.48833724e-02 1.50755471e-02 6.51519917e-03 2.81567363e-03
  1.21684967e-03 5.25885922e-04 2.27272119e-04 9.82201917e-05
  4.24478202e-05 1.83446745e-05 7.92801797e-06 3.42625152e-06
  1.48072312e-06 6.39924111e-07 2.76556003e-07 1.19519208e-07]
 [1.00000000e+00 9.62810000e-01 9.27003096e-01 8.92527851e-01
  8.59334740e-01 8.27376081e-01 7.96605965e-01 7.66980189e-01
  7.38456196e-01 7.10993010e-01 6.84551180e-01 6.59092721e-01
  6.34581063e-01 6.10980993e-01 5.88258610e-01 5.66381272e-01
  5.45317553e-01 5.25037193e-01 5.05511060e-01 4.86711104e-01]]
```

This is for least squares

In [ ]:
```
X = x
def ordinary_least_squares(X, y):

 # Compute theta_hat using OLS
  theta_hat = np.linalg.inv(X.T @ X) @ X.T @ y

  return theta_hat


theta_hat = ordinary_least_squares(X, y)
print(theta_hat)
```

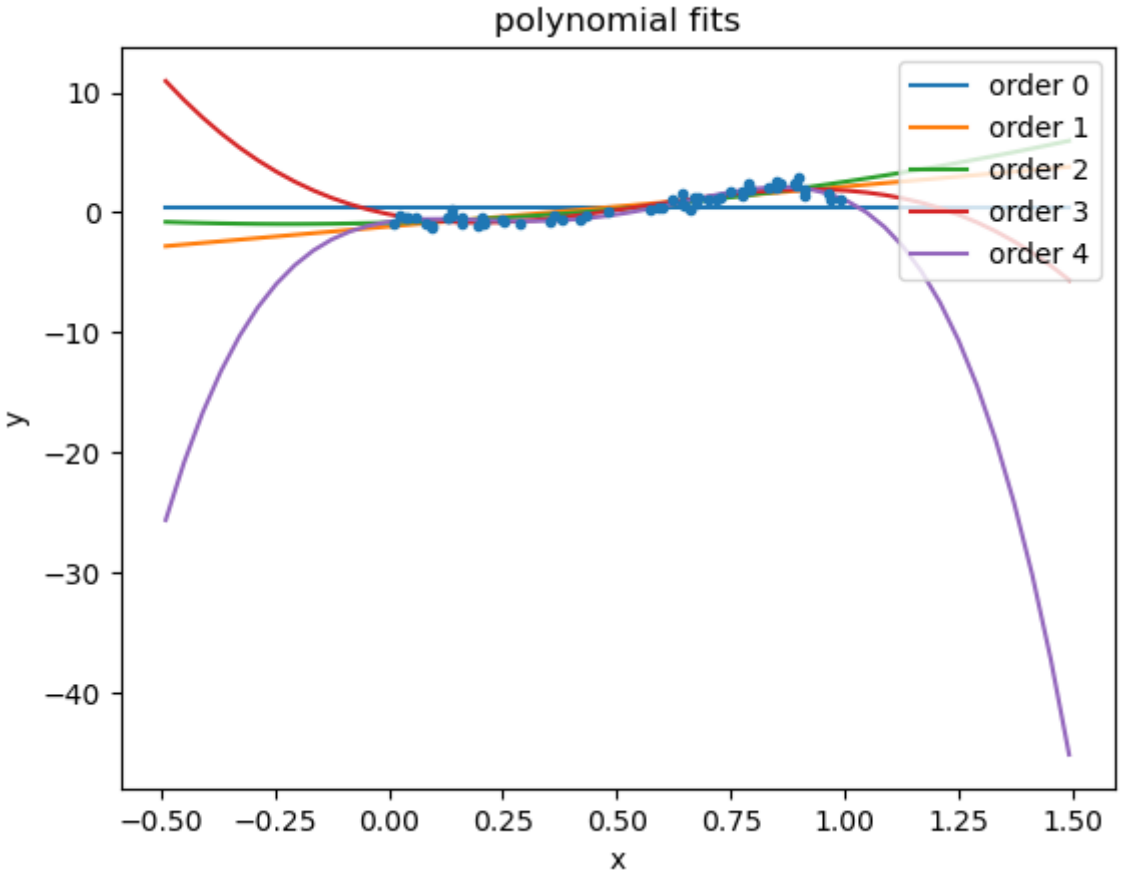
```
[[1.61851916]]
```

2.MLE estimator

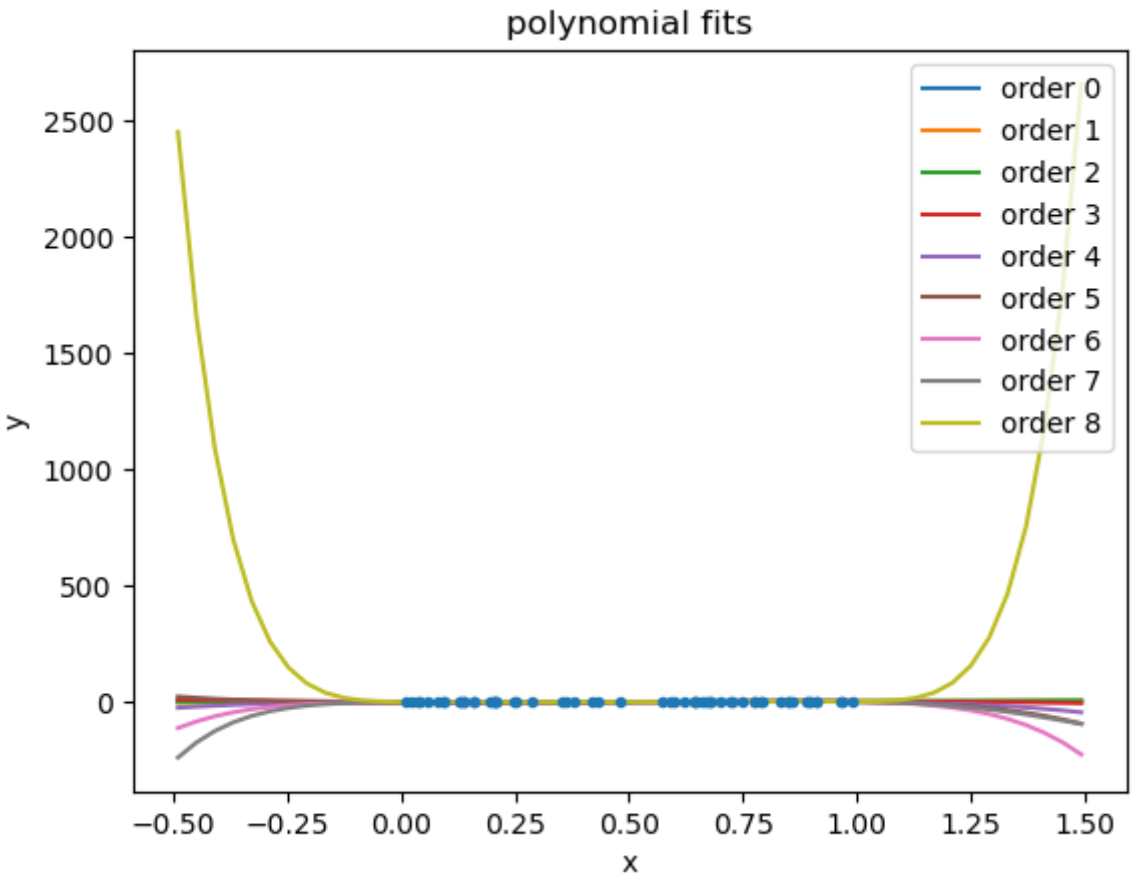
In [ ]:
```
def solve_poly_reg(x, y, max_order):

  # Create a dictionary with polynomial order as keys,
  # and np array of theta_hat (weights) as the values
  theta_hats = {}

  # Loop over polynomial orders from 0 through max_order
  for order in range(max_order + 1):
```

```
    # Create design matrix
    X_design = make_design_matrix(x, order)

    # Fit polynomial model
    this_theta = ordinary_least_squares(X_design, y)

    theta_hats[order] = this_theta

  return theta_hats
```

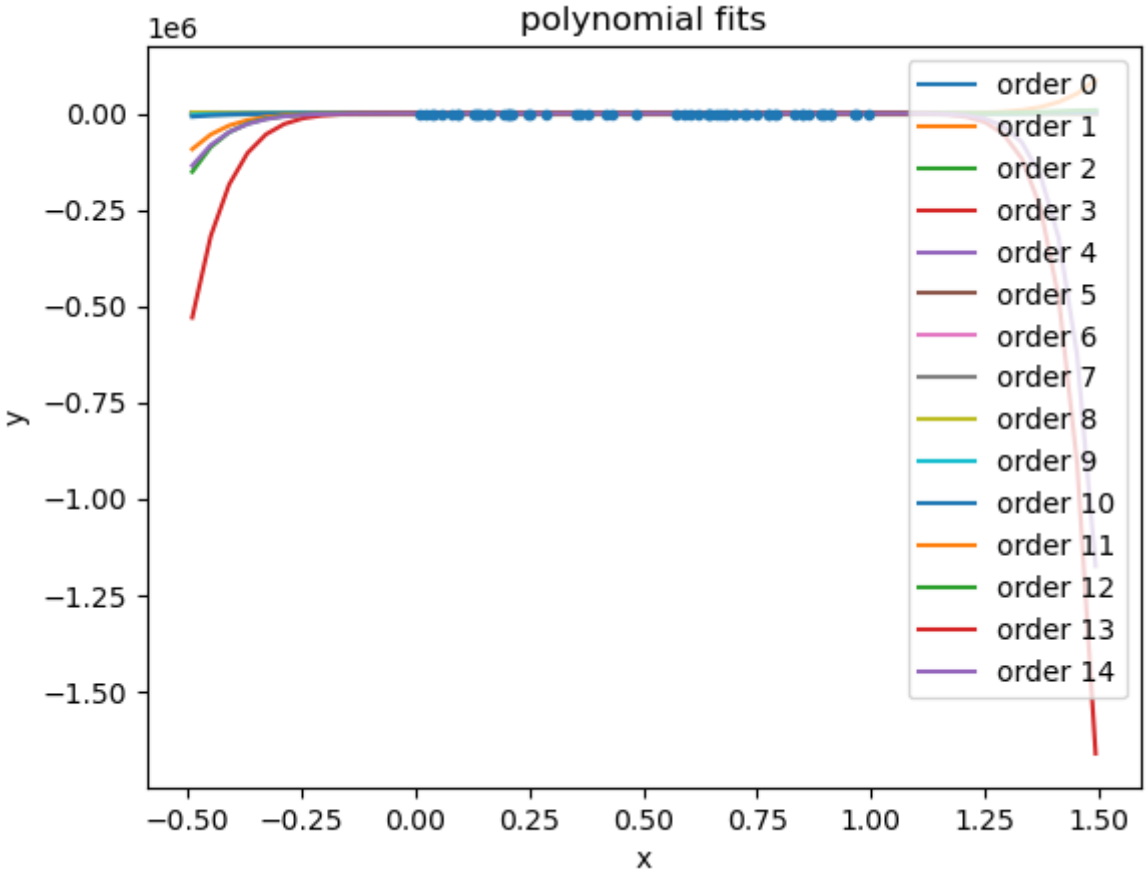
In [ ]:
```
max_order = 4
theta_hats = solve_poly_reg(x, y, max_order)

# Visualize
plot_fitted_polynomials(x, y, theta_hats)
```



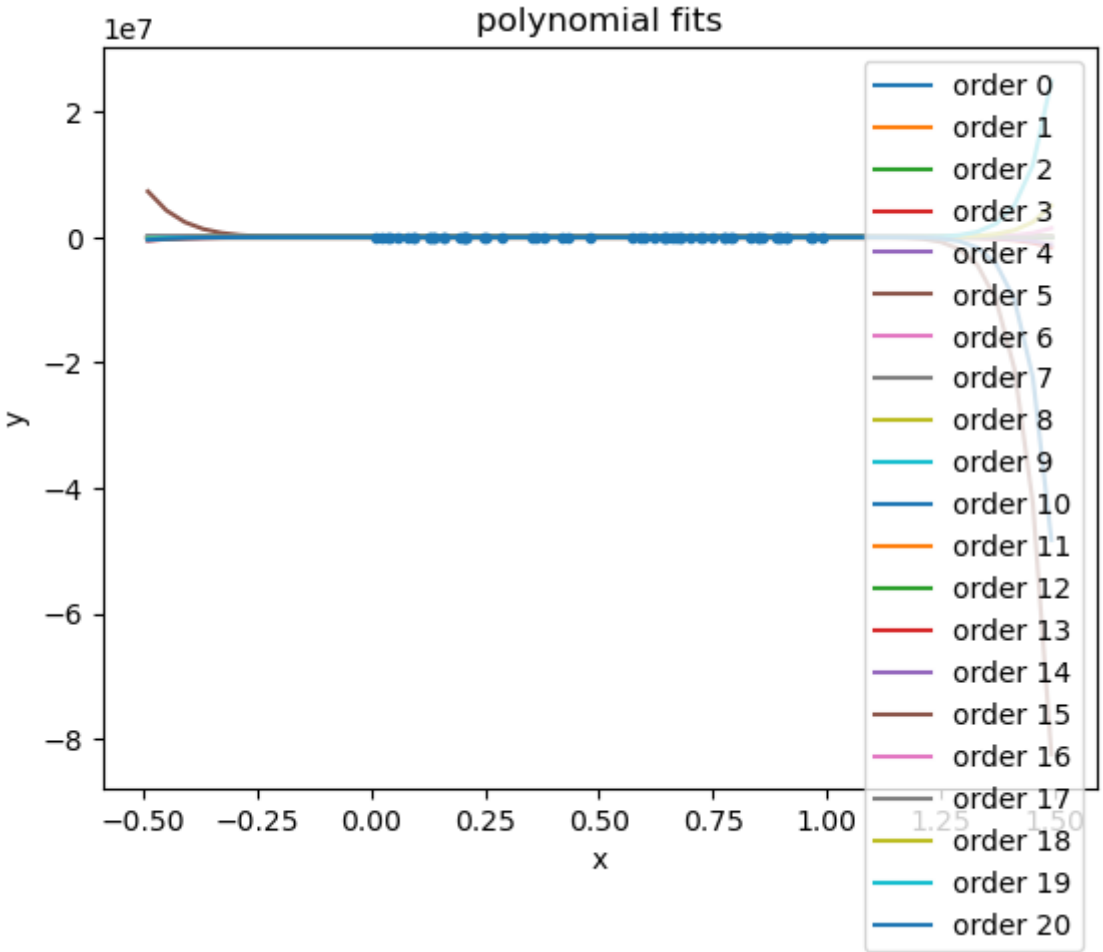
In [ ]:
```
max_order = 8
theta_hats = solve_poly_reg(x, y, max_order)

# Visualize
plot_fitted_polynomials(x, y, theta_hats)
```



In [ ]:
```
max_order = 14
theta_hats = solve_poly_reg(x, y, max_order)

# Visualize
plot_fitted_polynomials(x, y, theta_hats)
```



In [ ]:
```
max_order = 20
theta_hats = solve_poly_reg(x, y, max_order)

# Visualize
plot_fitted_polynomials(x, y, theta_hats)
```

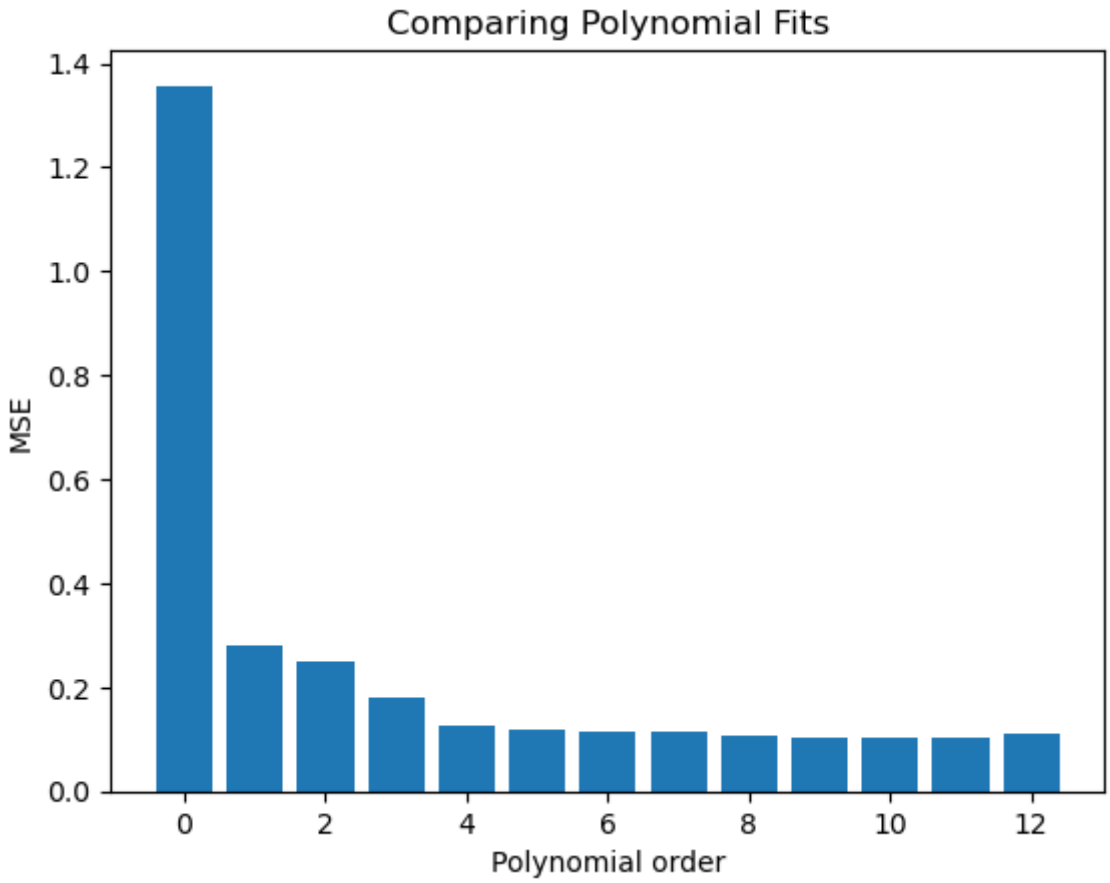


3.MSE

In [ ]:
```
max_order = 12
```

In [ ]:
```
mse_list = []
order_list = list(range(max_order + 1))

for order in order_list:

  X_design = make_design_matrix(x, order)

  # Get prediction for the polynomial regression model of this order
  y_hat = X_design @ theta_hats[order]

  # Compute the residuals
  residuals = y - y_hat

  # Compute the MSE
  mse = np.mean(residuals ** 2)

  mse_list.append(mse)
```

In [ ]:
```
# Visualize MSE of fits
evaluate_fits(order_list, mse_list)
```



1. Sei find the best order 10

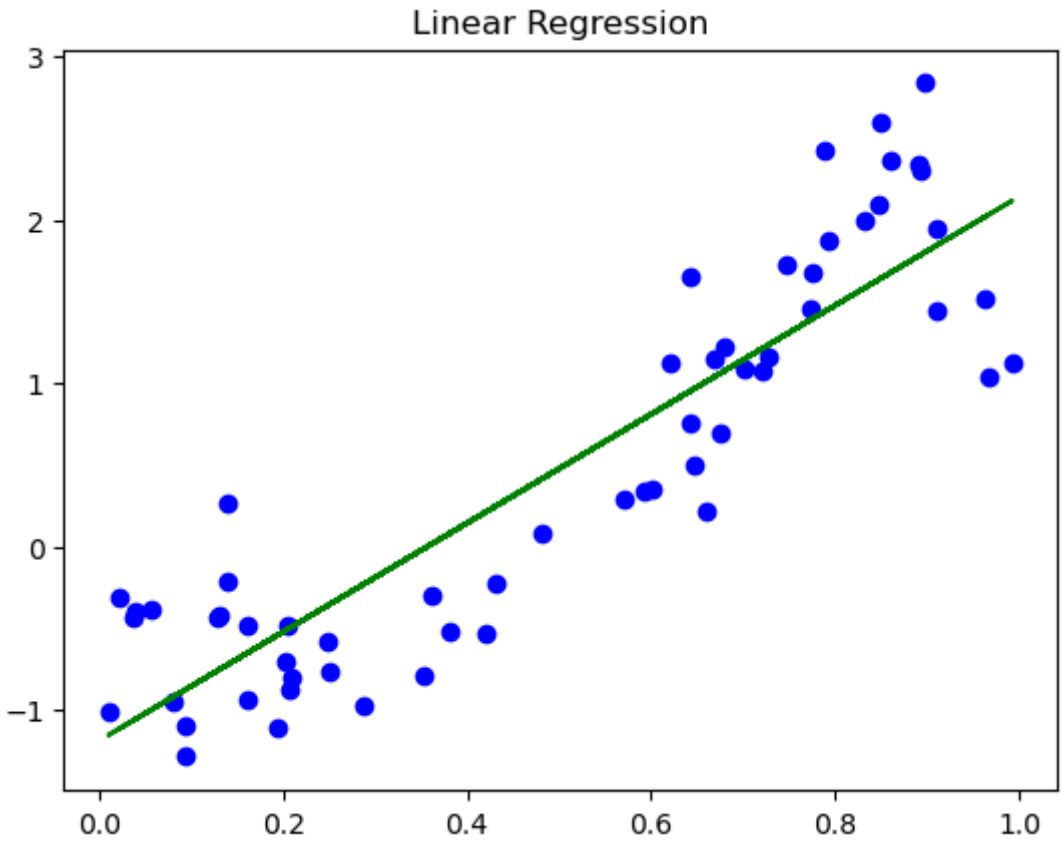
In [ ]:
```
# Fitting Linear Regression to the dataset
from sklearn.linear_model import LinearRegression
lin = LinearRegression()

lin.fit(X, y)
```

Out[ ]:
```
LinearRegression()
```

In [ ]:
```
# Fitting Polynomial Regression to the dataset
from sklearn.preprocessing import PolynomialFeatures

poly = PolynomialFeatures(degree = 1)
X_poly = poly.fit_transform(X)

poly.fit(X_poly, y)
lin2 = LinearRegression()
lin2.fit(X_poly, y)
```

Out[ ]:
```
LinearRegression()
```

In [ ]:
```
# Visualising the Polynomial Regression results
plt.scatter(X, y, color = 'blue')

plt.plot(X, lin2.predict(poly.fit_transform(X)), color = 'green')
plt.title('Linear Regression')
plt.show()
```



5.Plot the training and test errors against the degree of the polynomial. A paper-pencil plot on squared paper is fine. What do you observe?

You can see whether the model is overfitted by looking at the relationship between the loss values of the training and validation sets with the change of epoch, and if it is, you can stop the training in time and then adjust the model structure and hyperparameters according to the situation, which saves time greatly.

The results obtained after the test set are more accurate

6.Implement the estimator wRIDGE.

In [ ]:
```
from sklearn.linear_model import Ridge
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error


def ridge_demo():
     #4 岭
    estimator = Ridge(alpha=1) # 1
    # estimator = RidgeCV(alphas=(0.1, 1, 10))  # 2
    estimator.fit(x_train, y_train)

    y_predict = estimator.predict(x_test)
    print("predict为:\n", y_predict)
    print("coef:\n", estimator.coef_)
    print("intercept:\n", estimator.intercept_)

    # .2
    # 均方误差
    error = mean_squared_error(y_test, y_predict)
    print("error:\n", error)
```

```
if __name__ == '__main__':
    ridge_demo()
```

```
predict为:
 [[ 0.08611446]
 [-0.61103771]
 [ 1.01428889]
 [-0.67416242]
 [-0.38271066]
 [-0.28471841]
 [ 0.40139757]
 [ 1.08890372]
 [ 1.13026814]
 [ 1.11656511]
 [-0.30415231]
 [ 0.99474151]
 [ 1.06470355]
 [ 1.36750358]
 [ 0.64680376]
 [-0.58468137]
 [ 0.22297451]
 [ 1.4754823 ]
 [ 0.41969665]
 [-0.59106477]
 [ 1.57165883]
 [ 0.77651441]
 [ 0.91873652]
 [-0.83454175]
 [ 0.03955821]
 [ 0.22195317]
 [ 0.9643849 ]
 [ 0.66042168]
 [ 1.79422664]]
coef:
 [[2.83706576]]
intercept:
 [-0.94098846]
error:
 0.23403165723376682
```

7.Find a good combination of d and that gives you a small validation error. Is the test error smaller than the test error of the optimal solution from (d)?

I think they are both similar in this question

Because there are no errors or omissions in the data there is no need to add