From Untitled2

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require(caret) #select tuning parameters

## Loading required package: caret

## Warning: package 'caret' was built under R version 3.4.2

## Loading required package: lattice

## Loading required package: ggplot2

require(e1071) #SVM

## Loading required package: e1071

## Warning: package 'e1071' was built under R version 3.4.2

eddat <- read.csv('EdgarMDPraveen1.csv', as.is = T);  
attach(eddat)

dm6 <- eddat[which(group == 'AfA' | group == 'EA'| group == 'HSE'| group == 'HW'),];  
colSums(is.na(eddat))

## Indiv number ancestry Race OMBRace Race2 Race3 coll   
## 0 0 0 0 0 0 0 0   
## group century WING UI1LC UI1SS UI2SS UCSS UI1DS   
## 0 0 99 18 25 41 95 24   
## UI2DS UP3TC UM1MC UM1HC UM1C5 LI1SS LI2SS LP3LC   
## 36 51 23 31 76 36 25 40   
## LP4LC LM1GP LM2GP LM2CN LM1PS LM2PS LM1TC LM2C7   
## 44 586 557 259 88 148 241 184

table(na.omit(dm6[,c(9,12,13,16,17,19,20,22,23,24,14,25,15,21,29)])$group)#18,,30

##   
## AfA EA HSE HW   
## 139 128 130 111

dm <- na.omit(dm6[,c(9,12,13,16,17,19,20,22,23,24,14,25,15,21,29,18)])  
dm$group <- as.factor(dm$group)  
  
dm <- cbind(dm["group"], scale(dm[,c(2:14)]) )

# time how long it takes

start\_time <- Sys.time()  
Accuracies <- c(0.00)  
# suppress console output  
sink('sinktest.txt')  
for (i in seq(10))  
{  
 # sample  
 inTrain <- createDataPartition(dm$group, p = .80, list = FALSE)  
 dm.navg <- avNNet(dm[c(2:14)], dm$group, subset = inTrain, size = 2, rang = 0.5, decay = 5e-6, maxit = 200, repeats = 50)  
 Accuracies[i] <- confusionMatrix(dm$group[-inTrain], predict(dm.navg, dm[-inTrain,], type = "class"))$overall["Accuracy"]  
}

## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 560.207807   
## final value 503.173005   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 474.349526   
## iter 10 value 337.256959  
## iter 20 value 307.296496  
## iter 30 value 258.648157  
## iter 40 value 236.846702  
## iter 50 value 228.295562  
## iter 60 value 226.335328  
## iter 70 value 224.873772  
## iter 80 value 223.146890  
## iter 90 value 222.515115  
## iter 100 value 222.268984  
## iter 110 value 222.036815  
## iter 120 value 221.715653  
## iter 130 value 220.521676  
## iter 140 value 220.225294  
## iter 150 value 219.941493  
## iter 160 value 219.598862  
## iter 170 value 219.568265  
## iter 180 value 219.555229  
## iter 190 value 219.480997  
## iter 200 value 219.445160  
## final value 219.445160   
## stopped after 200 iterations  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 573.161627   
## final value 503.190583   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 479.236499   
## iter 10 value 321.630942  
## iter 20 value 260.209459  
## iter 30 value 236.809757  
## iter 40 value 231.765295  
## iter 50 value 226.526660  
## iter 60 value 224.823239  
## iter 70 value 224.113044  
## iter 80 value 222.728280  
## iter 90 value 221.589874  
## iter 100 value 221.427610  
## iter 110 value 221.351694  
## iter 120 value 221.192657  
## iter 130 value 220.812968  
## iter 140 value 220.163019  
## iter 150 value 218.905445  
## iter 160 value 218.864906  
## iter 170 value 218.852539  
## iter 180 value 218.839504  
## iter 190 value 218.801341  
## iter 200 value 218.798782  
## final value 218.798782   
## stopped after 200 iterations  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 608.635283   
## final value 503.197127   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 532.930717   
## final value 503.152731   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 524.896714   
## final value 503.130027   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 512.724507   
## final value 503.125770   
## converged  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 470.955895   
## iter 10 value 296.650192  
## iter 20 value 235.353863  
## iter 30 value 220.442227  
## iter 40 value 216.201286  
## iter 50 value 214.124215  
## iter 60 value 212.985572  
## iter 70 value 211.783678  
## iter 80 value 211.007191  
## iter 90 value 210.953716  
## iter 100 value 210.939248  
## iter 110 value 210.882371  
## iter 120 value 210.815922  
## iter 130 value 210.712079  
## iter 140 value 210.666724  
## iter 150 value 210.587882  
## iter 160 value 210.511305  
## iter 170 value 210.461460  
## iter 180 value 210.446254  
## iter 190 value 210.429254  
## iter 200 value 210.419072  
## final value 210.419072   
## stopped after 200 iterations  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 473.518199   
## iter 10 value 307.269349  
## iter 20 value 265.575100  
## iter 30 value 247.364533  
## iter 40 value 243.847608  
## iter 50 value 241.848700  
## iter 60 value 239.661350  
## iter 70 value 238.834934  
## iter 80 value 238.296178  
## iter 90 value 238.146890  
## iter 100 value 237.909937  
## iter 110 value 237.834868  
## iter 120 value 237.750322  
## iter 130 value 237.478544  
## iter 140 value 237.239966  
## iter 150 value 236.961814  
## iter 160 value 236.656842  
## iter 170 value 236.631483  
## iter 180 value 236.620997  
## iter 190 value 236.620087  
## iter 200 value 236.616196  
## final value 236.616196   
## stopped after 200 iterations  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 509.990490   
## final value 503.139778   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 499.853630   
## iter 10 value 326.910611  
## iter 20 value 243.293490  
## iter 30 value 237.125383  
## iter 40 value 233.527439  
## iter 50 value 231.228832  
## iter 60 value 230.072071  
## iter 70 value 227.388285  
## iter 80 value 226.167409  
## iter 90 value 225.712304  
## iter 100 value 225.524971  
## iter 110 value 225.312488  
## iter 120 value 225.237812  
## iter 130 value 224.721397  
## iter 140 value 223.895885  
## iter 150 value 223.595868  
## iter 160 value 223.364853  
## iter 170 value 223.250527  
## iter 180 value 223.247020  
## iter 180 value 223.247018  
## final value 223.247018   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 483.326404   
## iter 10 value 308.278586  
## iter 20 value 254.247181  
## iter 30 value 241.339043  
## iter 40 value 237.845812  
## iter 50 value 233.848088  
## iter 60 value 230.770309  
## iter 70 value 227.242097  
## iter 80 value 222.286654  
## iter 90 value 221.013911  
## iter 100 value 220.421525  
## iter 110 value 219.611508  
## iter 120 value 219.123186  
## iter 130 value 218.677414  
## iter 140 value 218.228626  
## iter 150 value 218.119224  
## iter 160 value 217.342048  
## iter 170 value 216.380538  
## iter 180 value 216.329029  
## iter 190 value 216.321970  
## iter 200 value 216.320213  
## final value 216.320213   
## stopped after 200 iterations  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 478.175627   
## iter 10 value 328.790587  
## iter 20 value 243.915155  
## iter 30 value 235.718244  
## iter 40 value 227.598851  
## iter 50 value 223.862233  
## iter 60 value 222.870581  
## iter 70 value 221.398886  
## iter 80 value 218.205677  
## iter 90 value 217.912424  
## iter 100 value 217.881726  
## iter 110 value 217.873923  
## iter 120 value 217.814579  
## iter 130 value 217.753440  
## iter 140 value 217.699187  
## iter 150 value 217.473544  
## iter 160 value 217.437402  
## iter 170 value 217.378500  
## iter 180 value 217.358062  
## iter 190 value 217.353242  
## iter 200 value 217.306730  
## final value 217.306730   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 509.314473   
## final value 503.123692   
## converged  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 555.752384   
## final value 503.150914   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 503.599282   
## iter 10 value 502.948536  
## iter 20 value 502.761012  
## iter 30 value 441.485821  
## iter 40 value 427.812962  
## iter 50 value 424.518810  
## iter 60 value 423.220042  
## iter 70 value 422.768503  
## iter 80 value 422.672600  
## iter 90 value 422.644279  
## iter 100 value 422.634984  
## iter 110 value 422.622967  
## iter 120 value 422.590610  
## iter 130 value 422.527528  
## iter 140 value 417.180876  
## iter 150 value 383.267987  
## iter 160 value 371.053007  
## iter 170 value 367.411380  
## iter 180 value 344.605106  
## iter 190 value 331.638074  
## iter 200 value 331.473587  
## final value 331.473587   
## stopped after 200 iterations  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 552.150316   
## final value 503.161055   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 521.433145   
## final value 503.123061   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 613.139684   
## final value 503.182361   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 449.140094   
## iter 10 value 259.270313  
## iter 20 value 218.592845  
## iter 30 value 215.846290  
## iter 40 value 211.557059  
## iter 50 value 209.172001  
## iter 60 value 208.818336  
## iter 70 value 208.802130  
## iter 80 value 208.789778  
## iter 90 value 208.781703  
## iter 100 value 208.767965  
## iter 110 value 208.711640  
## iter 120 value 208.605994  
## iter 130 value 208.543824  
## iter 140 value 208.529606  
## iter 150 value 208.516818  
## iter 160 value 208.504350  
## iter 170 value 208.499684  
## iter 180 value 208.495667  
## iter 190 value 208.493266  
## iter 200 value 208.488526  
## final value 208.488526   
## stopped after 200 iterations  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 488.824767   
## iter 10 value 318.051114  
## iter 20 value 244.722140  
## iter 30 value 230.870153  
## iter 40 value 226.519717  
## iter 50 value 223.849144  
## iter 60 value 219.370820  
## iter 70 value 218.251877  
## iter 80 value 218.031930  
## iter 90 value 217.970776  
## iter 100 value 217.935915  
## iter 110 value 217.857561  
## iter 120 value 217.619722  
## iter 130 value 217.138501  
## iter 140 value 217.096203  
## iter 150 value 217.085449  
## iter 160 value 217.075125  
## iter 170 value 217.055755  
## iter 180 value 217.051829  
## iter 190 value 217.039151  
## iter 200 value 217.035015  
## final value 217.035015   
## stopped after 200 iterations  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 551.264696   
## final value 503.141987   
## converged  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 502.417364   
## iter 10 value 312.513212  
## iter 20 value 236.355079  
## iter 30 value 228.829861  
## iter 40 value 224.393746  
## iter 50 value 218.362163  
## iter 60 value 214.706369  
## iter 70 value 214.271398  
## iter 80 value 213.636297  
## iter 90 value 213.450634  
## iter 100 value 213.296650  
## iter 110 value 213.056485  
## iter 120 value 212.976974  
## iter 130 value 212.945244  
## iter 140 value 212.940425  
## iter 150 value 212.909097  
## iter 160 value 212.887342  
## iter 170 value 212.871895  
## iter 180 value 212.865965  
## iter 190 value 212.859561  
## iter 200 value 212.855886  
## final value 212.855886   
## stopped after 200 iterations  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 580.875386   
## final value 503.177671   
## converged  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 539.033004   
## final value 503.124673   
## converged  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 488.839682   
## iter 10 value 302.985120  
## iter 20 value 234.326478  
## iter 30 value 221.748204  
## iter 40 value 217.479933  
## iter 50 value 216.387782  
## iter 60 value 215.392943  
## iter 70 value 215.050438  
## iter 80 value 214.614771  
## iter 90 value 214.385244  
## iter 100 value 213.601651  
## iter 110 value 213.303064  
## iter 120 value 213.194568  
## iter 130 value 212.825640  
## iter 140 value 212.292422  
## iter 150 value 211.640251  
## iter 160 value 211.567188  
## iter 170 value 211.523327  
## iter 180 value 211.503142  
## iter 190 value 211.281401  
## iter 200 value 211.226953  
## final value 211.226953   
## stopped after 200 iterations  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 521.064422   
## final value 503.128078   
## converged  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 484.035517   
## iter 10 value 344.111737  
## iter 20 value 261.733707  
## iter 30 value 250.530096  
## iter 40 value 241.351481  
## iter 50 value 237.247446  
## iter 60 value 235.216689  
## iter 70 value 232.808276  
## iter 80 value 231.431769  
## iter 90 value 230.879515  
## iter 100 value 227.427829  
## iter 110 value 223.031364  
## iter 120 value 222.832331  
## iter 130 value 222.808213  
## iter 140 value 222.797681  
## iter 150 value 222.788242  
## iter 160 value 222.786159  
## iter 170 value 222.783369  
## iter 180 value 222.772487  
## iter 190 value 222.752687  
## iter 200 value 222.708664  
## final value 222.708664   
## stopped after 200 iterations  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 614.543873   
## final value 503.177535   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 493.985071   
## iter 10 value 359.885545  
## iter 20 value 342.256927  
## iter 30 value 299.085769  
## iter 40 value 249.089736  
## iter 50 value 235.071787  
## iter 60 value 231.772623  
## iter 70 value 230.833561  
## iter 80 value 230.222792  
## iter 90 value 229.995053  
## iter 100 value 229.506353  
## iter 110 value 229.275696  
## iter 120 value 229.078875  
## iter 130 value 228.486769  
## iter 140 value 227.932459  
## iter 150 value 227.227644  
## iter 160 value 226.581976  
## iter 170 value 226.324816  
## iter 180 value 226.135935  
## iter 190 value 226.084387  
## iter 200 value 226.078980  
## final value 226.078980   
## stopped after 200 iterations  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 491.343365   
## iter 10 value 419.865561  
## iter 20 value 414.528392  
## iter 30 value 410.779323  
## iter 40 value 408.942426  
## iter 50 value 408.567966  
## iter 60 value 407.618530  
## iter 70 value 406.613798  
## iter 80 value 405.539435  
## iter 90 value 405.458154  
## iter 100 value 405.442168  
## iter 110 value 405.434076  
## iter 120 value 405.425048  
## iter 130 value 405.419730  
## iter 140 value 405.410395  
## iter 150 value 405.392646  
## iter 160 value 405.378007  
## iter 170 value 405.367553  
## iter 180 value 405.357242  
## iter 190 value 405.332908  
## iter 200 value 405.321822  
## final value 405.321822   
## stopped after 200 iterations  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 552.146430   
## final value 503.156619   
## converged  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 622.426423   
## final value 503.201730   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 504.821580   
## iter 10 value 453.902676  
## iter 20 value 445.857129  
## iter 30 value 442.588870  
## iter 40 value 440.469129  
## iter 50 value 440.431985  
## iter 60 value 440.421901  
## iter 70 value 440.414210  
## iter 80 value 440.406971  
## iter 90 value 440.404964  
## iter 100 value 440.402455  
## iter 110 value 440.400485  
## iter 120 value 440.398805  
## iter 130 value 440.398224  
## iter 140 value 440.397668  
## iter 150 value 440.396592  
## iter 160 value 440.395071  
## iter 170 value 440.394246  
## iter 180 value 440.393516  
## iter 190 value 440.393007  
## iter 200 value 440.392556  
## final value 440.392556   
## stopped after 200 iterations  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 577.760400   
## final value 503.194831   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 476.734405   
## iter 10 value 344.313737  
## iter 20 value 257.076730  
## iter 30 value 243.865671  
## iter 40 value 240.116749  
## iter 50 value 237.664587  
## iter 60 value 234.280409  
## iter 70 value 233.297220  
## iter 80 value 233.218308  
## iter 90 value 233.212993  
## iter 100 value 233.195574  
## iter 110 value 233.187937  
## iter 120 value 233.176072  
## iter 130 value 233.164087  
## iter 140 value 233.159309  
## iter 150 value 233.152823  
## iter 160 value 233.150331  
## final value 233.150074   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 567.481359   
## final value 503.151835   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 466.971944   
## iter 10 value 339.464083  
## iter 20 value 257.923768  
## iter 30 value 242.437561  
## iter 40 value 236.322611  
## iter 50 value 229.794620  
## iter 60 value 228.370571  
## iter 70 value 226.853109  
## iter 80 value 226.120448  
## iter 90 value 225.879041  
## iter 100 value 225.709285  
## iter 110 value 225.625820  
## iter 120 value 225.585303  
## iter 130 value 225.505135  
## iter 140 value 225.470425  
## iter 150 value 225.429245  
## iter 160 value 225.250385  
## iter 170 value 225.072778  
## iter 180 value 224.831108  
## iter 190 value 223.825176  
## iter 200 value 223.463263  
## final value 223.463263   
## stopped after 200 iterations  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 497.545431   
## iter 10 value 327.361945  
## iter 20 value 253.392634  
## iter 30 value 227.624939  
## iter 40 value 222.450863  
## iter 50 value 218.837794  
## iter 60 value 211.923206  
## iter 70 value 211.315329  
## iter 80 value 211.180980  
## iter 90 value 211.097619  
## iter 100 value 211.044554  
## iter 110 value 210.998582  
## iter 120 value 210.677247  
## iter 130 value 210.651704  
## iter 140 value 210.586474  
## iter 150 value 210.493160  
## iter 160 value 210.433077  
## iter 170 value 210.209468  
## iter 180 value 210.012503  
## iter 190 value 209.970232  
## iter 200 value 209.957356  
## final value 209.957356   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 508.081331   
## final value 503.114203   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 459.628371   
## iter 10 value 257.999828  
## iter 20 value 233.245474  
## iter 30 value 227.082556  
## iter 40 value 225.748595  
## iter 50 value 224.701170  
## iter 60 value 223.670079  
## iter 70 value 223.070970  
## iter 80 value 222.958521  
## iter 90 value 222.888003  
## iter 100 value 222.832229  
## iter 110 value 222.737990  
## iter 120 value 222.579777  
## iter 130 value 222.409578  
## iter 140 value 222.128840  
## iter 150 value 222.038159  
## iter 160 value 221.995121  
## iter 170 value 221.913305  
## iter 180 value 221.807976  
## iter 190 value 221.743112  
## iter 200 value 221.714404  
## final value 221.714404   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 516.168163   
## final value 503.118611   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 451.952969   
## iter 10 value 320.684210  
## iter 20 value 260.321745  
## iter 30 value 226.396873  
## iter 40 value 220.113120  
## iter 50 value 219.142896  
## iter 60 value 218.793070  
## iter 70 value 217.704439  
## iter 80 value 217.317137  
## iter 90 value 217.163571  
## iter 100 value 217.075937  
## iter 110 value 216.950348  
## iter 120 value 216.439694  
## iter 130 value 216.136692  
## iter 140 value 215.959581  
## iter 150 value 215.866213  
## iter 160 value 215.862565  
## final value 215.859620   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 491.116607   
## iter 10 value 364.562309  
## iter 20 value 315.926392  
## iter 30 value 267.030189  
## iter 40 value 232.621872  
## iter 50 value 227.762941  
## iter 60 value 226.504949  
## iter 70 value 224.523603  
## iter 80 value 223.572851  
## iter 90 value 222.459217  
## iter 100 value 221.919478  
## iter 110 value 221.631265  
## iter 120 value 221.598558  
## iter 130 value 221.516247  
## iter 140 value 221.433469  
## iter 150 value 221.399045  
## iter 160 value 221.337170  
## iter 170 value 221.297235  
## iter 180 value 221.053993  
## iter 190 value 221.005671  
## iter 200 value 221.005557  
## final value 221.005557   
## stopped after 200 iterations  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 467.486129   
## iter 10 value 311.850600  
## iter 20 value 238.357167  
## iter 30 value 223.507633  
## iter 40 value 220.640750  
## iter 50 value 216.641292  
## iter 60 value 214.085178  
## iter 70 value 213.977260  
## iter 80 value 213.971541  
## iter 90 value 213.968804  
## iter 100 value 213.960574  
## iter 110 value 213.938065  
## iter 120 value 213.848131  
## iter 130 value 213.821303  
## iter 140 value 213.794303  
## iter 150 value 213.773779  
## iter 160 value 213.753815  
## iter 170 value 213.688543  
## iter 180 value 213.661246  
## iter 190 value 213.652523  
## iter 200 value 213.642774  
## final value 213.642774   
## stopped after 200 iterations  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 602.317326   
## final value 503.208294   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 553.267061   
## final value 503.148823   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 572.990016   
## final value 503.144894   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 487.530811   
## iter 10 value 332.924801  
## iter 20 value 243.565408  
## iter 30 value 230.460961  
## iter 40 value 225.069527  
## iter 50 value 224.509045  
## iter 60 value 224.205104  
## iter 70 value 223.376549  
## iter 80 value 221.827517  
## iter 90 value 221.412218  
## iter 100 value 221.107371  
## iter 110 value 221.008049  
## iter 120 value 220.859583  
## iter 130 value 220.806660  
## iter 140 value 220.708833  
## iter 150 value 220.598669  
## iter 160 value 220.539820  
## iter 170 value 220.429549  
## iter 180 value 220.408280  
## iter 190 value 220.394800  
## iter 200 value 220.315263  
## final value 220.315263   
## stopped after 200 iterations  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 557.255427   
## final value 503.155367   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 577.563558   
## final value 503.184080   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 496.682117   
## iter 10 value 288.034115  
## iter 20 value 227.168899  
## iter 30 value 221.826204  
## iter 40 value 217.799321  
## iter 50 value 214.794675  
## iter 60 value 210.337149  
## iter 70 value 209.851285  
## iter 80 value 209.796812  
## iter 90 value 209.786641  
## iter 100 value 209.771270  
## iter 110 value 209.765282  
## iter 120 value 209.762315  
## iter 130 value 209.756241  
## iter 140 value 209.735350  
## iter 150 value 209.715227  
## iter 160 value 209.705561  
## iter 170 value 209.697851  
## iter 180 value 209.694186  
## iter 190 value 209.692566  
## iter 200 value 209.691826  
## final value 209.691826   
## stopped after 200 iterations  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 480.183945   
## iter 10 value 330.058857  
## iter 20 value 244.409075  
## iter 30 value 232.642769  
## iter 40 value 223.725551  
## iter 50 value 216.473481  
## iter 60 value 215.113230  
## iter 70 value 214.252281  
## iter 80 value 214.010784  
## iter 90 value 213.955242  
## iter 100 value 213.951046  
## iter 110 value 213.948464  
## iter 120 value 213.937184  
## iter 130 value 213.132988  
## iter 140 value 211.865124  
## iter 150 value 211.732899  
## iter 160 value 211.721342  
## iter 170 value 211.719672  
## iter 180 value 211.719365  
## iter 190 value 211.719190  
## iter 200 value 211.717967  
## final value 211.717967   
## stopped after 200 iterations  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 497.660584   
## iter 10 value 326.669001  
## iter 20 value 235.530410  
## iter 30 value 226.504720  
## iter 40 value 222.074420  
## iter 50 value 220.411118  
## iter 60 value 216.867237  
## iter 70 value 214.945916  
## iter 80 value 214.544678  
## iter 90 value 214.384163  
## iter 100 value 214.256523  
## iter 110 value 214.062250  
## iter 120 value 213.924970  
## iter 130 value 213.773537  
## iter 140 value 213.694398  
## iter 150 value 213.664547  
## iter 160 value 213.659208  
## iter 170 value 213.655530  
## iter 180 value 213.611255  
## iter 190 value 213.596142  
## iter 200 value 213.587327  
## final value 213.587327   
## stopped after 200 iterations  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 596.255086   
## final value 503.198596   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 471.184141   
## iter 10 value 305.783493  
## iter 20 value 237.638990  
## iter 30 value 228.357433  
## iter 40 value 223.425986  
## iter 50 value 218.062291  
## iter 60 value 216.117775  
## iter 70 value 215.382939  
## iter 80 value 214.714917  
## iter 90 value 214.326425  
## iter 100 value 214.117520  
## iter 110 value 213.950842  
## iter 120 value 213.899242  
## iter 130 value 213.796143  
## iter 140 value 213.390993  
## iter 150 value 213.101744  
## iter 160 value 212.417761  
## iter 170 value 212.158011  
## iter 180 value 212.124134  
## iter 190 value 212.088183  
## iter 200 value 211.916314  
## final value 211.916314   
## stopped after 200 iterations  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 485.956518   
## iter 10 value 280.927258  
## iter 20 value 253.791225  
## iter 30 value 240.024112  
## iter 40 value 237.374320  
## iter 50 value 235.974982  
## iter 60 value 231.201878  
## iter 70 value 229.028008  
## iter 80 value 228.950411  
## iter 90 value 228.657253  
## iter 100 value 228.580883  
## iter 110 value 228.562638  
## iter 120 value 228.541558  
## iter 130 value 228.517300  
## iter 140 value 228.492089  
## iter 150 value 228.464469  
## iter 160 value 228.458303  
## iter 170 value 228.456851  
## iter 180 value 228.454368  
## iter 190 value 228.450809  
## iter 200 value 228.439294  
## final value 228.439294   
## stopped after 200 iterations  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 533.089460   
## final value 503.135748   
## converged  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 558.466752   
## final value 503.165566   
## converged  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 545.173574   
## final value 503.152810   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 541.696880   
## final value 503.160834   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 591.889152   
## final value 503.195522   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 482.034169   
## iter 10 value 329.441163  
## iter 20 value 281.243362  
## iter 30 value 223.915282  
## iter 40 value 221.053514  
## iter 50 value 219.362548  
## iter 60 value 215.735726  
## iter 70 value 213.622344  
## iter 80 value 210.499330  
## iter 90 value 208.100863  
## iter 100 value 208.013870  
## iter 110 value 207.902263  
## iter 120 value 207.663861  
## iter 130 value 207.073469  
## iter 140 value 206.925401  
## iter 150 value 206.888323  
## iter 160 value 206.838748  
## iter 170 value 206.675571  
## iter 180 value 206.605702  
## iter 190 value 206.588358  
## iter 200 value 206.571570  
## final value 206.571570   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 464.361942   
## iter 10 value 308.104857  
## iter 20 value 251.858686  
## iter 30 value 230.273743  
## iter 40 value 226.494104  
## iter 50 value 219.506498  
## iter 60 value 216.525142  
## iter 70 value 212.644172  
## iter 80 value 210.767070  
## iter 90 value 209.968931  
## iter 100 value 209.837704  
## iter 110 value 209.775428  
## iter 120 value 209.706439  
## iter 130 value 209.640774  
## iter 140 value 209.498065  
## iter 150 value 209.395661  
## iter 160 value 209.330699  
## iter 170 value 209.271742  
## iter 180 value 209.245509  
## iter 190 value 209.221775  
## iter 200 value 209.219147  
## final value 209.219147   
## stopped after 200 iterations  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 561.880902   
## final value 503.175587   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 511.915506   
## final value 503.104946   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 533.110023   
## final value 503.149163   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 541.496200   
## final value 503.165201   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 565.829691   
## final value 503.189136   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 512.823636   
## final value 503.131276   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 516.026081   
## final value 503.121838   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 491.433810   
## iter 10 value 315.285686  
## iter 20 value 251.413015  
## iter 30 value 236.573377  
## iter 40 value 232.588211  
## iter 50 value 230.512411  
## iter 60 value 229.754028  
## iter 70 value 229.062968  
## iter 80 value 227.276725  
## iter 90 value 227.048975  
## iter 100 value 226.575879  
## iter 110 value 224.714224  
## iter 120 value 224.507231  
## iter 130 value 224.410353  
## iter 140 value 224.405857  
## iter 150 value 224.395525  
## iter 160 value 224.382499  
## iter 170 value 224.375562  
## iter 180 value 224.371831  
## iter 190 value 224.365155  
## iter 200 value 224.356101  
## final value 224.356101   
## stopped after 200 iterations  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 559.833822   
## final value 503.163962   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 451.843328   
## iter 10 value 276.543780  
## iter 20 value 247.824417  
## iter 30 value 239.483251  
## iter 40 value 236.849960  
## iter 50 value 235.479209  
## iter 60 value 233.579083  
## iter 70 value 230.049743  
## iter 80 value 225.394388  
## iter 90 value 223.578287  
## iter 100 value 223.000822  
## iter 110 value 222.700424  
## iter 120 value 222.501630  
## iter 130 value 222.038788  
## iter 140 value 221.865451  
## iter 150 value 221.632040  
## iter 160 value 220.726099  
## iter 170 value 220.207701  
## iter 180 value 219.922124  
## iter 190 value 219.857478  
## iter 200 value 219.815981  
## final value 219.815981   
## stopped after 200 iterations  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 502.971393   
## iter 10 value 364.455728  
## iter 20 value 270.250110  
## iter 30 value 239.612176  
## iter 40 value 231.965996  
## iter 50 value 228.876936  
## iter 60 value 227.098006  
## iter 70 value 223.394113  
## iter 80 value 222.806737  
## iter 90 value 222.416098  
## iter 100 value 222.252713  
## iter 110 value 222.075390  
## iter 120 value 222.064543  
## iter 130 value 222.040563  
## iter 140 value 222.010693  
## iter 150 value 222.006164  
## iter 160 value 221.989575  
## iter 170 value 221.921987  
## iter 180 value 221.361925  
## iter 190 value 221.339780  
## iter 200 value 221.333787  
## final value 221.333787   
## stopped after 200 iterations  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 500.527317   
## iter 10 value 311.590407  
## iter 20 value 239.268812  
## iter 30 value 219.219357  
## iter 40 value 217.163560  
## iter 50 value 215.306060  
## iter 60 value 214.363254  
## iter 70 value 213.483630  
## iter 80 value 213.045746  
## iter 90 value 212.887067  
## iter 100 value 212.859994  
## iter 110 value 212.813243  
## iter 120 value 212.722624  
## iter 130 value 212.651037  
## iter 140 value 212.370841  
## iter 150 value 212.147553  
## iter 160 value 212.133717  
## iter 170 value 212.118083  
## iter 180 value 212.115495  
## iter 190 value 212.109435  
## iter 200 value 212.103580  
## final value 212.103580   
## stopped after 200 iterations  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 583.772386   
## final value 503.169805   
## converged  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 669.721668   
## final value 503.220291   
## converged  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 522.470095   
## final value 503.140134   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 514.939092   
## final value 503.099918   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 512.616516   
## final value 503.119484   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 415.496445   
## iter 10 value 282.173303  
## iter 20 value 237.011478  
## iter 30 value 224.543318  
## iter 40 value 222.636631  
## iter 50 value 219.192816  
## iter 60 value 217.394615  
## iter 70 value 216.966630  
## iter 80 value 216.820193  
## iter 90 value 216.780526  
## iter 100 value 216.719400  
## iter 110 value 216.602531  
## iter 120 value 216.417077  
## iter 130 value 216.407568  
## iter 140 value 216.392370  
## iter 150 value 216.377358  
## iter 160 value 216.208426  
## iter 170 value 215.897691  
## iter 180 value 215.873820  
## iter 190 value 215.858182  
## iter 200 value 215.848959  
## final value 215.848959   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 555.949086   
## final value 503.145649   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 488.705320   
## iter 10 value 355.051260  
## iter 20 value 264.093003  
## iter 30 value 246.784486  
## iter 40 value 240.786701  
## iter 50 value 234.362131  
## iter 60 value 233.819078  
## iter 70 value 232.365052  
## iter 80 value 229.107935  
## iter 90 value 228.111140  
## iter 100 value 227.315720  
## iter 110 value 226.705607  
## iter 120 value 226.371675  
## iter 130 value 226.149647  
## iter 140 value 226.140141  
## iter 150 value 226.117436  
## iter 160 value 226.026210  
## iter 170 value 225.988735  
## iter 180 value 225.964004  
## iter 190 value 225.954096  
## iter 200 value 225.941948  
## final value 225.941948   
## stopped after 200 iterations  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 495.904201   
## iter 10 value 310.330574  
## iter 20 value 255.552907  
## iter 30 value 240.667688  
## iter 40 value 237.780941  
## iter 50 value 235.375649  
## iter 60 value 233.945190  
## iter 70 value 231.516086  
## iter 80 value 231.041623  
## iter 90 value 230.987649  
## iter 100 value 230.931545  
## iter 110 value 230.831487  
## iter 120 value 230.656064  
## iter 130 value 230.508482  
## iter 140 value 230.384151  
## iter 150 value 230.300677  
## iter 160 value 229.615698  
## iter 170 value 229.563631  
## iter 180 value 229.468499  
## iter 190 value 229.356832  
## iter 200 value 229.336623  
## final value 229.336623   
## stopped after 200 iterations  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 533.711264   
## final value 503.149501   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 503.649319   
## iter 10 value 502.944988  
## iter 20 value 502.755488  
## iter 30 value 418.053490  
## iter 40 value 410.797279  
## iter 50 value 408.844585  
## iter 60 value 408.244557  
## iter 70 value 408.036220  
## iter 80 value 407.971057  
## iter 90 value 407.936404  
## iter 100 value 407.801782  
## iter 110 value 407.693918  
## iter 120 value 407.607435  
## iter 130 value 405.836380  
## iter 140 value 375.181227  
## iter 150 value 370.157726  
## iter 160 value 368.750882  
## iter 170 value 368.099896  
## iter 180 value 368.048145  
## iter 190 value 368.035731  
## iter 200 value 368.007356  
## final value 368.007356   
## stopped after 200 iterations  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 509.625324   
## final value 503.134408   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 452.176459   
## iter 10 value 291.262819  
## iter 20 value 237.932445  
## iter 30 value 232.486712  
## iter 40 value 229.044220  
## iter 50 value 221.205237  
## iter 60 value 216.282015  
## iter 70 value 214.508945  
## iter 80 value 212.481455  
## iter 90 value 210.540821  
## iter 100 value 209.822462  
## iter 110 value 209.760277  
## iter 120 value 209.719912  
## iter 130 value 209.693287  
## iter 140 value 209.558509  
## iter 150 value 209.506268  
## iter 160 value 209.450321  
## iter 170 value 209.109189  
## iter 180 value 209.007035  
## iter 190 value 208.992609  
## iter 200 value 208.978388  
## final value 208.978388   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 499.053799   
## iter 10 value 340.623020  
## iter 20 value 236.504065  
## iter 30 value 228.282341  
## iter 40 value 225.419325  
## iter 50 value 224.369310  
## iter 60 value 223.518562  
## iter 70 value 223.060901  
## iter 80 value 222.793558  
## iter 90 value 222.548012  
## final value 222.547227   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 643.907161   
## final value 503.228672   
## converged  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 591.318832   
## final value 503.170899   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 582.013920   
## final value 503.186487   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 504.837506   
## iter 10 value 502.996077  
## iter 20 value 502.994882  
## iter 30 value 502.993381  
## iter 40 value 502.991455  
## iter 50 value 502.988893  
## iter 60 value 502.985323  
## iter 70 value 502.979983  
## iter 80 value 502.971109  
## iter 90 value 502.953357  
## iter 100 value 502.899992  
## iter 110 value 501.359261  
## iter 120 value 419.651815  
## iter 130 value 412.470767  
## iter 140 value 409.664996  
## iter 150 value 407.777338  
## iter 160 value 401.665458  
## iter 170 value 373.091452  
## iter 180 value 372.321256  
## iter 190 value 371.882044  
## iter 200 value 371.861297  
## final value 371.861297   
## stopped after 200 iterations  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 593.696521   
## final value 503.169521   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 502.338576   
## iter 10 value 351.249744  
## iter 20 value 253.807082  
## iter 30 value 231.079173  
## iter 40 value 228.594383  
## iter 50 value 228.038355  
## iter 60 value 226.541871  
## iter 70 value 225.710025  
## iter 80 value 224.712600  
## iter 90 value 224.632716  
## iter 100 value 224.583698  
## iter 110 value 224.562851  
## iter 120 value 224.458478  
## iter 130 value 224.340395  
## iter 140 value 224.152747  
## iter 150 value 224.095543  
## iter 160 value 224.024256  
## iter 170 value 223.989158  
## iter 180 value 223.968590  
## iter 190 value 223.947605  
## iter 200 value 223.881576  
## final value 223.881576   
## stopped after 200 iterations  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 496.819866   
## iter 10 value 307.282917  
## iter 20 value 238.559548  
## iter 30 value 233.653323  
## iter 40 value 230.996062  
## iter 50 value 229.611417  
## iter 60 value 229.022998  
## iter 70 value 227.938861  
## iter 80 value 227.030925  
## iter 90 value 226.893757  
## iter 100 value 226.720787  
## iter 110 value 226.527491  
## iter 120 value 226.514932  
## iter 130 value 226.400298  
## iter 140 value 226.330879  
## iter 150 value 226.309821  
## iter 160 value 226.261937  
## iter 170 value 226.249561  
## iter 180 value 226.155355  
## iter 190 value 226.140444  
## iter 200 value 226.135551  
## final value 226.135551   
## stopped after 200 iterations  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 550.798945   
## final value 503.151371   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 456.651172   
## iter 10 value 313.008345  
## iter 20 value 251.108922  
## iter 30 value 240.345865  
## iter 40 value 236.339959  
## iter 50 value 234.935257  
## iter 60 value 233.247165  
## iter 70 value 230.272715  
## iter 80 value 229.058757  
## iter 90 value 228.765602  
## iter 100 value 228.739317  
## iter 110 value 228.724381  
## iter 120 value 228.711999  
## iter 130 value 228.561978  
## iter 140 value 228.429443  
## iter 150 value 228.413709  
## iter 160 value 228.410728  
## iter 170 value 228.366636  
## iter 180 value 228.214642  
## iter 190 value 228.202285  
## iter 200 value 228.158748  
## final value 228.158748   
## stopped after 200 iterations  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 513.268568   
## final value 503.122789   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 526.012750   
## final value 503.141985   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 646.537762   
## final value 503.242034   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 632.126434   
## final value 503.199316   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 547.314844   
## final value 503.154436   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 485.198394   
## iter 10 value 330.736584  
## iter 20 value 263.945880  
## iter 30 value 224.251425  
## iter 40 value 219.536778  
## iter 50 value 213.710354  
## iter 60 value 208.812239  
## iter 70 value 205.681202  
## iter 80 value 205.265548  
## iter 90 value 205.155503  
## iter 100 value 205.080309  
## iter 110 value 205.027444  
## iter 120 value 204.985185  
## iter 130 value 204.909559  
## iter 140 value 204.879053  
## iter 150 value 204.828491  
## iter 160 value 204.801283  
## iter 170 value 204.795102  
## iter 180 value 204.788249  
## iter 190 value 204.786046  
## iter 200 value 204.776098  
## final value 204.776098   
## stopped after 200 iterations  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 504.342719   
## iter 10 value 502.997397  
## iter 20 value 502.996198  
## iter 30 value 502.994552  
## iter 40 value 502.992174  
## iter 50 value 502.988468  
## iter 60 value 502.981992  
## iter 70 value 502.968262  
## iter 80 value 502.924004  
## iter 90 value 501.497769  
## iter 100 value 439.524279  
## iter 110 value 432.154105  
## iter 120 value 430.619303  
## iter 130 value 428.322713  
## iter 140 value 427.784043  
## iter 150 value 427.759600  
## iter 160 value 427.752525  
## iter 170 value 427.710726  
## iter 180 value 427.691477  
## iter 190 value 427.653954  
## iter 200 value 427.493223  
## final value 427.493223   
## stopped after 200 iterations  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 481.848875   
## iter 10 value 360.702304  
## iter 20 value 297.248916  
## iter 30 value 245.439066  
## iter 40 value 228.645694  
## iter 50 value 224.165171  
## iter 60 value 221.922133  
## iter 70 value 218.469218  
## iter 80 value 216.956810  
## iter 90 value 216.569278  
## iter 100 value 216.020035  
## iter 110 value 215.943220  
## iter 120 value 215.914597  
## iter 130 value 215.875595  
## iter 140 value 215.811492  
## iter 150 value 215.793442  
## iter 160 value 215.750057  
## iter 170 value 215.745190  
## iter 180 value 215.741576  
## iter 190 value 215.738623  
## iter 200 value 215.728937  
## final value 215.728937   
## stopped after 200 iterations  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 506.656480   
## final value 503.105858   
## converged  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 522.202351   
## final value 503.126396   
## converged  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 615.087003   
## final value 503.200101   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 605.014383   
## final value 503.195969   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 533.657686   
## final value 503.132604   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 627.169224   
## final value 503.196790   
## converged  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 491.472792   
## iter 10 value 340.650723  
## iter 20 value 278.528057  
## iter 30 value 240.157399  
## iter 40 value 231.118574  
## iter 50 value 227.207632  
## iter 60 value 225.204994  
## iter 70 value 224.288839  
## iter 80 value 223.323591  
## iter 90 value 220.321861  
## iter 100 value 219.550975  
## iter 110 value 219.437591  
## iter 120 value 219.371092  
## iter 130 value 219.324470  
## iter 140 value 219.309077  
## iter 150 value 219.305590  
## iter 160 value 219.267708  
## iter 170 value 219.219903  
## iter 180 value 219.212749  
## iter 190 value 219.144789  
## iter 200 value 219.135801  
## final value 219.135801   
## stopped after 200 iterations  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 556.309650   
## final value 503.160099   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 574.126734   
## final value 503.176347   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 548.406448   
## final value 503.166963   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 570.520616   
## final value 503.164148   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 520.848941   
## final value 503.137750   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 519.716773   
## final value 503.122982   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 497.664230   
## iter 10 value 319.453481  
## iter 20 value 240.118799  
## iter 30 value 231.621317  
## iter 40 value 229.426822  
## iter 50 value 228.762891  
## iter 60 value 227.741343  
## iter 70 value 225.960004  
## iter 80 value 225.059467  
## iter 90 value 224.924530  
## iter 100 value 224.364111  
## iter 110 value 223.297905  
## iter 120 value 222.923853  
## iter 130 value 222.901269  
## iter 140 value 222.889002  
## iter 150 value 222.876533  
## iter 160 value 222.850085  
## iter 170 value 222.831756  
## iter 180 value 222.808189  
## iter 190 value 222.793684  
## iter 200 value 222.735897  
## final value 222.735897   
## stopped after 200 iterations  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 514.024430   
## final value 503.132268   
## converged  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 545.646172   
## final value 503.130950   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 472.793668   
## iter 10 value 300.269862  
## iter 20 value 226.576496  
## iter 30 value 222.115737  
## iter 40 value 221.647772  
## iter 50 value 219.872393  
## iter 60 value 217.639177  
## iter 70 value 216.781519  
## iter 80 value 216.456256  
## iter 90 value 216.366766  
## iter 100 value 216.360094  
## iter 110 value 216.356644  
## iter 120 value 216.343866  
## iter 130 value 216.299862  
## iter 140 value 216.262142  
## iter 150 value 216.213496  
## iter 160 value 216.205439  
## iter 170 value 216.204717  
## final value 216.204369   
## converged  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 474.670130   
## iter 10 value 330.490699  
## iter 20 value 266.449980  
## iter 30 value 236.920023  
## iter 40 value 225.504527  
## iter 50 value 222.590585  
## iter 60 value 219.156319  
## iter 70 value 216.693386  
## iter 80 value 216.597482  
## iter 90 value 216.570516  
## iter 100 value 216.524733  
## iter 110 value 216.393946  
## iter 120 value 216.381835  
## iter 130 value 216.328191  
## iter 140 value 216.243322  
## iter 150 value 216.206547  
## iter 160 value 216.182265  
## iter 170 value 216.177368  
## iter 180 value 216.171823  
## iter 190 value 216.135054  
## iter 200 value 216.130225  
## final value 216.130225   
## stopped after 200 iterations  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 539.661539   
## final value 503.145232   
## converged  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 526.894640   
## final value 503.136898   
## converged  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 473.292192   
## iter 10 value 314.481669  
## iter 20 value 285.462761  
## iter 30 value 266.483740  
## iter 40 value 240.157949  
## iter 50 value 236.146024  
## iter 60 value 233.603098  
## iter 70 value 232.255241  
## iter 80 value 230.421538  
## iter 90 value 229.388138  
## iter 100 value 228.932821  
## iter 110 value 228.818207  
## iter 120 value 228.800440  
## iter 130 value 228.787074  
## iter 140 value 228.778409  
## iter 150 value 228.775105  
## iter 160 value 228.773942  
## iter 170 value 228.772981  
## iter 180 value 228.772034  
## iter 190 value 228.770694  
## iter 200 value 228.765306  
## final value 228.765306   
## stopped after 200 iterations  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 603.244200   
## final value 503.172533   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 528.389240   
## final value 503.147453   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 541.906917   
## final value 503.139661   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 496.020780   
## iter 10 value 324.152063  
## iter 20 value 276.548744  
## iter 30 value 264.199917  
## iter 40 value 247.314606  
## iter 50 value 241.590305  
## iter 60 value 239.919814  
## iter 70 value 239.545794  
## iter 80 value 237.876358  
## iter 90 value 233.329141  
## iter 100 value 231.260666  
## iter 110 value 230.038960  
## iter 120 value 229.685922  
## iter 130 value 229.313993  
## iter 140 value 229.150944  
## iter 150 value 228.669096  
## iter 160 value 228.193295  
## iter 170 value 228.182951  
## iter 180 value 228.181137  
## iter 190 value 228.122308  
## iter 200 value 228.010556  
## final value 228.010556   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 517.118679   
## final value 503.120675   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 452.909231   
## iter 10 value 350.729923  
## iter 20 value 264.722676  
## iter 30 value 236.031551  
## iter 40 value 228.293904  
## iter 50 value 225.960334  
## iter 60 value 224.623954  
## iter 70 value 224.230269  
## iter 80 value 223.724937  
## iter 90 value 222.504067  
## iter 100 value 221.146094  
## iter 110 value 219.268468  
## iter 120 value 218.476476  
## iter 130 value 218.286686  
## iter 140 value 218.206794  
## iter 150 value 218.131049  
## iter 160 value 218.050795  
## iter 170 value 218.028810  
## iter 180 value 217.999734  
## iter 190 value 217.999373  
## iter 200 value 217.895353  
## final value 217.895353   
## stopped after 200 iterations  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 573.094422   
## final value 503.174629   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 488.052244   
## iter 10 value 272.004668  
## iter 20 value 241.409832  
## iter 30 value 232.600156  
## iter 40 value 227.956235  
## iter 50 value 225.064173  
## iter 60 value 222.082669  
## iter 70 value 216.888139  
## iter 80 value 216.766732  
## iter 90 value 216.727119  
## iter 100 value 216.711920  
## iter 110 value 216.640479  
## iter 120 value 216.472086  
## iter 130 value 216.443332  
## iter 140 value 216.178251  
## iter 150 value 215.404155  
## iter 160 value 215.371508  
## iter 170 value 215.280913  
## iter 180 value 215.201553  
## iter 190 value 215.174070  
## iter 200 value 215.150090  
## final value 215.150090   
## stopped after 200 iterations  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 574.667621   
## final value 503.180643   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 554.238036   
## final value 503.164639   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 512.663662   
## final value 503.134068   
## converged  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 532.788873   
## final value 503.124887   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 542.557662   
## final value 503.138100   
## converged  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 522.572408   
## final value 503.124254   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 491.178858   
## iter 10 value 348.423220  
## iter 20 value 252.766641  
## iter 30 value 232.464396  
## iter 40 value 224.606116  
## iter 50 value 220.785211  
## iter 60 value 218.995920  
## iter 70 value 215.019581  
## iter 80 value 210.955843  
## iter 90 value 210.833068  
## iter 100 value 209.966863  
## iter 110 value 209.850452  
## iter 120 value 209.801932  
## iter 130 value 209.769113  
## iter 140 value 209.671594  
## iter 150 value 209.602743  
## iter 160 value 209.473538  
## iter 170 value 209.407353  
## iter 180 value 209.368010  
## iter 190 value 209.359479  
## iter 200 value 209.356497  
## final value 209.356497   
## stopped after 200 iterations  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 502.725786   
## iter 10 value 341.341364  
## iter 20 value 281.232091  
## iter 30 value 228.985439  
## iter 40 value 225.111291  
## iter 50 value 223.483598  
## iter 60 value 221.836621  
## iter 70 value 217.005141  
## iter 80 value 214.937493  
## iter 90 value 213.669657  
## iter 100 value 213.507238  
## iter 110 value 213.373410  
## iter 120 value 213.320459  
## iter 130 value 213.080143  
## iter 140 value 212.838954  
## iter 150 value 212.620398  
## iter 160 value 212.459819  
## iter 170 value 212.435828  
## iter 180 value 212.424160  
## iter 190 value 212.420024  
## iter 200 value 212.416637  
## final value 212.416637   
## stopped after 200 iterations  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 560.307248   
## final value 503.159242   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 515.327344   
## final value 503.124041   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 472.545128   
## iter 10 value 296.920553  
## iter 20 value 226.845632  
## iter 30 value 217.613593  
## iter 40 value 215.785680  
## iter 50 value 214.779037  
## iter 60 value 213.423172  
## iter 70 value 213.177759  
## iter 80 value 212.834569  
## iter 90 value 212.405108  
## iter 100 value 212.229678  
## iter 110 value 212.122708  
## iter 120 value 212.024475  
## iter 130 value 211.975857  
## iter 140 value 211.957301  
## iter 150 value 211.946979  
## iter 160 value 211.879252  
## iter 170 value 211.845556  
## iter 180 value 211.633828  
## iter 190 value 211.574317  
## iter 200 value 211.558298  
## final value 211.558298   
## stopped after 200 iterations  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 522.478212   
## final value 503.140223   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 554.055017   
## final value 503.174611   
## converged  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 529.884912   
## final value 503.139142   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 568.613957   
## final value 503.153249   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 519.713085   
## final value 503.132958   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 418.704556   
## iter 10 value 303.500020  
## iter 20 value 248.434205  
## iter 30 value 237.312651  
## iter 40 value 231.526127  
## iter 50 value 224.394413  
## iter 60 value 221.389608  
## iter 70 value 218.824275  
## iter 80 value 217.264654  
## iter 90 value 217.208921  
## iter 100 value 217.150507  
## iter 110 value 217.142993  
## iter 120 value 217.140077  
## iter 130 value 217.135539  
## iter 140 value 217.122085  
## iter 150 value 217.119740  
## iter 160 value 217.114767  
## iter 170 value 217.088779  
## iter 180 value 217.086418  
## iter 190 value 217.084996  
## iter 200 value 217.083447  
## final value 217.083447   
## stopped after 200 iterations  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 495.799584   
## iter 10 value 283.221751  
## iter 20 value 248.359775  
## iter 30 value 245.430077  
## iter 40 value 244.438151  
## iter 50 value 243.245982  
## iter 60 value 241.801202  
## iter 70 value 241.069521  
## iter 80 value 240.939661  
## iter 90 value 240.904706  
## iter 100 value 240.888351  
## iter 110 value 240.861505  
## iter 120 value 240.828249  
## iter 130 value 240.739966  
## iter 140 value 240.649374  
## iter 150 value 240.529629  
## iter 160 value 240.432204  
## iter 170 value 240.358121  
## iter 180 value 240.344675  
## iter 190 value 240.271758  
## iter 200 value 240.219237  
## final value 240.219237   
## stopped after 200 iterations  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 526.090125   
## final value 503.143472   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 529.743857   
## final value 503.134182   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 557.981298   
## final value 503.148945   
## converged  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 511.243492   
## final value 503.130904   
## converged  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 466.150643   
## iter 10 value 320.474066  
## iter 20 value 250.152411  
## iter 30 value 242.659336  
## iter 40 value 240.235337  
## iter 50 value 237.392492  
## iter 60 value 236.220565  
## iter 70 value 231.856550  
## iter 80 value 230.752387  
## iter 90 value 230.736623  
## iter 100 value 230.705968  
## iter 110 value 230.616769  
## iter 120 value 230.601611  
## iter 130 value 230.589712  
## iter 140 value 230.553975  
## iter 150 value 230.535648  
## iter 160 value 230.478005  
## iter 170 value 230.428248  
## iter 180 value 230.411991  
## iter 190 value 230.404711  
## iter 200 value 230.401617  
## final value 230.401617   
## stopped after 200 iterations  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 556.869034   
## final value 503.161336   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 551.296645   
## final value 503.153781   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 547.643774   
## final value 503.155781   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 490.456614   
## iter 10 value 358.318086  
## iter 20 value 257.783287  
## iter 30 value 230.708877  
## iter 40 value 226.335813  
## iter 50 value 222.317543  
## iter 60 value 218.763003  
## iter 70 value 216.081517  
## iter 80 value 215.334415  
## iter 90 value 215.310790  
## iter 100 value 215.303039  
## iter 110 value 215.243816  
## iter 120 value 215.201729  
## iter 130 value 215.133156  
## iter 140 value 215.123543  
## iter 150 value 215.117016  
## iter 160 value 215.113221  
## iter 170 value 215.108667  
## iter 180 value 215.108508  
## iter 190 value 215.106504  
## iter 200 value 215.104073  
## final value 215.104073   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 559.309086   
## final value 503.151270   
## converged  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 535.827076   
## final value 503.141268   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 551.687597   
## final value 503.146124   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 511.381215   
## final value 503.145901   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 501.393907   
## iter 10 value 338.086633  
## iter 20 value 308.567094  
## iter 30 value 280.862625  
## iter 40 value 246.276379  
## iter 50 value 231.411979  
## iter 60 value 227.083599  
## iter 70 value 226.566413  
## iter 80 value 224.572476  
## iter 90 value 223.145091  
## iter 100 value 222.912160  
## iter 110 value 222.720870  
## iter 120 value 222.513975  
## iter 130 value 222.463300  
## iter 140 value 222.434772  
## iter 150 value 222.415055  
## iter 160 value 222.177257  
## iter 170 value 222.014599  
## iter 180 value 221.972629  
## iter 190 value 221.932747  
## iter 200 value 221.928192  
## final value 221.928192   
## stopped after 200 iterations  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 491.331228   
## iter 10 value 287.374973  
## iter 20 value 246.956845  
## iter 30 value 237.585702  
## iter 40 value 232.190800  
## iter 50 value 229.564387  
## iter 60 value 228.792249  
## iter 70 value 228.012862  
## iter 80 value 225.653992  
## iter 90 value 222.381444  
## iter 100 value 217.888417  
## iter 110 value 215.991440  
## iter 120 value 215.506310  
## iter 130 value 215.448399  
## iter 140 value 215.442803  
## iter 150 value 215.435496  
## iter 160 value 215.424197  
## iter 170 value 215.420592  
## iter 180 value 215.418484  
## iter 190 value 215.409158  
## iter 200 value 215.391302  
## final value 215.391302   
## stopped after 200 iterations  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 474.415343   
## iter 10 value 333.577065  
## iter 20 value 290.993973  
## iter 30 value 277.353426  
## iter 40 value 272.435783  
## iter 50 value 270.157738  
## iter 60 value 266.528692  
## iter 70 value 262.955786  
## iter 80 value 261.552305  
## iter 90 value 261.524554  
## iter 100 value 261.493870  
## iter 110 value 261.333643  
## iter 120 value 261.263724  
## iter 130 value 261.238099  
## iter 140 value 261.209185  
## iter 150 value 261.156309  
## iter 160 value 261.119756  
## final value 261.119283   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 518.974285   
## final value 503.142645   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 500.790757   
## iter 10 value 317.310086  
## iter 20 value 287.255527  
## iter 30 value 250.766689  
## iter 40 value 234.287327  
## iter 50 value 230.537197  
## iter 60 value 229.662048  
## iter 70 value 229.429576  
## iter 80 value 223.936518  
## iter 90 value 217.659740  
## iter 100 value 215.875353  
## iter 110 value 215.003280  
## iter 120 value 214.409983  
## iter 130 value 214.157136  
## iter 140 value 213.989588  
## iter 150 value 213.929266  
## iter 160 value 213.849657  
## iter 170 value 213.534368  
## iter 180 value 213.298794  
## iter 190 value 213.104348  
## iter 200 value 212.691587  
## final value 212.691587   
## stopped after 200 iterations  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 532.730546   
## final value 503.122702   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 549.368701   
## final value 503.135398   
## converged  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 501.098886   
## iter 10 value 326.626162  
## iter 20 value 251.578059  
## iter 30 value 223.409229  
## iter 40 value 217.988057  
## iter 50 value 216.812487  
## iter 60 value 215.449448  
## iter 70 value 214.429310  
## iter 80 value 214.078557  
## iter 90 value 213.654873  
## iter 100 value 212.936765  
## iter 110 value 212.876697  
## iter 120 value 212.678174  
## iter 130 value 212.419154  
## iter 140 value 212.276245  
## iter 150 value 212.087046  
## iter 160 value 211.813611  
## iter 170 value 211.785638  
## iter 180 value 211.703920  
## iter 190 value 211.675439  
## iter 200 value 211.667579  
## final value 211.667579   
## stopped after 200 iterations  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 521.115618   
## final value 503.137625   
## converged  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 495.992261   
## iter 10 value 363.644316  
## iter 20 value 263.944938  
## iter 30 value 233.097001  
## iter 40 value 227.373985  
## iter 50 value 223.815682  
## iter 60 value 222.995997  
## iter 70 value 221.596151  
## iter 80 value 219.390191  
## iter 90 value 218.579099  
## iter 100 value 218.485674  
## iter 110 value 218.282315  
## iter 120 value 217.941058  
## iter 130 value 217.321408  
## iter 140 value 216.854909  
## iter 150 value 216.684902  
## iter 160 value 216.633333  
## iter 170 value 216.557640  
## iter 180 value 216.478046  
## iter 190 value 216.462679  
## iter 200 value 216.412146  
## final value 216.412146   
## stopped after 200 iterations  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 546.627661   
## final value 503.157098   
## converged  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 554.364023   
## final value 503.149898   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 453.937003   
## iter 10 value 254.480866  
## iter 20 value 220.613703  
## iter 30 value 217.143885  
## iter 40 value 212.141194  
## iter 50 value 210.454342  
## iter 60 value 210.359542  
## iter 70 value 210.351885  
## iter 80 value 210.339126  
## iter 90 value 210.337036  
## iter 100 value 210.332710  
## iter 110 value 210.310794  
## iter 120 value 210.197109  
## iter 130 value 210.108767  
## iter 140 value 210.097622  
## iter 150 value 210.091838  
## iter 160 value 210.082882  
## iter 170 value 209.975750  
## iter 180 value 209.755998  
## iter 190 value 209.667095  
## iter 200 value 209.638977  
## final value 209.638977   
## stopped after 200 iterations  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 632.038014   
## final value 503.216010   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 462.680242   
## iter 10 value 302.588772  
## iter 20 value 242.666060  
## iter 30 value 225.394547  
## iter 40 value 221.578117  
## iter 50 value 219.647585  
## iter 60 value 215.152793  
## iter 70 value 214.105658  
## iter 80 value 214.030756  
## iter 90 value 214.004972  
## iter 100 value 213.975069  
## iter 110 value 213.960137  
## iter 120 value 213.901614  
## iter 130 value 213.857492  
## iter 140 value 213.814102  
## iter 150 value 213.716844  
## iter 160 value 213.704889  
## iter 170 value 213.593875  
## iter 180 value 213.521543  
## iter 190 value 213.508776  
## iter 200 value 213.505492  
## final value 213.505492   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 532.301265   
## final value 503.126292   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 535.344792   
## final value 503.154893   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 482.164484   
## iter 10 value 305.286481  
## iter 20 value 247.869546  
## iter 30 value 230.175152  
## iter 40 value 225.833314  
## iter 50 value 224.297058  
## iter 60 value 222.163170  
## iter 70 value 220.651707  
## iter 80 value 219.285544  
## iter 90 value 219.164937  
## iter 100 value 219.149625  
## iter 110 value 218.917646  
## iter 120 value 218.890718  
## iter 130 value 218.883393  
## iter 140 value 218.833287  
## iter 150 value 218.811723  
## iter 160 value 218.793192  
## iter 170 value 218.714829  
## iter 180 value 218.706176  
## iter 190 value 218.693233  
## iter 200 value 218.688209  
## final value 218.688209   
## stopped after 200 iterations  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 505.695321   
## final value 503.121897   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 536.848136   
## final value 503.138475   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 514.310024   
## final value 503.119568   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 465.318828   
## iter 10 value 294.281578  
## iter 20 value 236.074715  
## iter 30 value 221.527501  
## iter 40 value 215.494033  
## iter 50 value 214.027882  
## iter 60 value 213.174340  
## iter 70 value 212.211211  
## iter 80 value 211.002821  
## iter 90 value 210.799883  
## iter 100 value 210.766713  
## iter 110 value 210.599129  
## iter 120 value 210.524695  
## iter 130 value 210.492653  
## iter 140 value 210.385047  
## iter 150 value 210.260412  
## iter 160 value 210.189908  
## final value 210.189623   
## converged  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 521.642757   
## final value 503.141021   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 566.387940   
## final value 503.192878   
## converged  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 489.203604   
## iter 10 value 346.104573  
## iter 20 value 258.928417  
## iter 30 value 230.780056  
## iter 40 value 226.894037  
## iter 50 value 225.677392  
## iter 60 value 224.964177  
## iter 70 value 224.391656  
## iter 80 value 224.146970  
## iter 90 value 224.057327  
## iter 100 value 224.000318  
## iter 110 value 223.905804  
## iter 120 value 222.754158  
## iter 130 value 221.972500  
## iter 140 value 221.824298  
## iter 150 value 221.638444  
## iter 160 value 221.620106  
## iter 170 value 221.618949  
## iter 180 value 221.618820  
## iter 190 value 221.618560  
## iter 200 value 221.618325  
## final value 221.618325   
## stopped after 200 iterations  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 552.496699   
## final value 503.157915   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 579.013862   
## final value 503.192950   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 445.221623   
## iter 10 value 291.580673  
## iter 20 value 245.018207  
## iter 30 value 231.383872  
## iter 40 value 227.071675  
## iter 50 value 224.372377  
## iter 60 value 222.750043  
## iter 70 value 222.514363  
## iter 80 value 222.322381  
## iter 90 value 222.186038  
## iter 100 value 222.113778  
## iter 110 value 221.871919  
## iter 120 value 221.793041  
## iter 130 value 221.624987  
## iter 140 value 221.463223  
## iter 150 value 221.249774  
## iter 160 value 221.241629  
## iter 170 value 221.130865  
## iter 180 value 221.126399  
## iter 190 value 221.124443  
## iter 200 value 221.122515  
## final value 221.122515   
## stopped after 200 iterations  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 546.378947   
## final value 503.146566   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 522.760704   
## final value 503.128642   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 506.896186   
## final value 503.118521   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 503.224068   
## iter 10 value 329.759862  
## iter 20 value 268.730309  
## iter 30 value 251.708484  
## iter 40 value 238.237553  
## iter 50 value 231.405429  
## iter 60 value 228.345888  
## iter 70 value 226.053377  
## iter 80 value 225.473684  
## iter 90 value 225.192420  
## iter 100 value 224.763012  
## iter 110 value 224.029695  
## iter 120 value 223.583510  
## iter 130 value 223.342748  
## iter 140 value 223.014005  
## iter 150 value 222.782311  
## iter 160 value 222.647358  
## iter 170 value 222.616995  
## iter 180 value 222.550852  
## iter 190 value 222.269299  
## iter 200 value 221.870345  
## final value 221.870345   
## stopped after 200 iterations  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 491.454453   
## iter 10 value 319.679664  
## iter 20 value 257.568870  
## iter 30 value 240.386502  
## iter 40 value 230.458556  
## iter 50 value 228.942041  
## iter 60 value 226.603063  
## iter 70 value 225.169974  
## iter 80 value 224.443832  
## iter 90 value 223.988706  
## iter 100 value 223.786401  
## iter 110 value 223.646589  
## iter 120 value 223.270845  
## iter 130 value 223.100626  
## iter 140 value 222.228511  
## iter 150 value 222.107807  
## iter 160 value 221.978552  
## iter 170 value 221.945844  
## iter 180 value 221.927369  
## iter 190 value 221.918407  
## iter 200 value 221.823402  
## final value 221.823402   
## stopped after 200 iterations  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 564.128263   
## final value 503.179691   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 579.555132   
## final value 503.162525   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 529.316127   
## final value 503.122865   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 560.371334   
## final value 503.166775   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 512.790866   
## final value 503.131666   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 470.978830   
## iter 10 value 293.085141  
## iter 20 value 235.366156  
## iter 30 value 224.267393  
## iter 40 value 222.213732  
## iter 50 value 217.546419  
## iter 60 value 212.498708  
## iter 70 value 211.432005  
## iter 80 value 211.018119  
## iter 90 value 210.835395  
## iter 100 value 210.676612  
## iter 110 value 210.614312  
## iter 120 value 210.538178  
## iter 130 value 210.080005  
## iter 140 value 209.901227  
## iter 150 value 209.788620  
## iter 160 value 209.555519  
## iter 170 value 209.413591  
## iter 180 value 209.284891  
## iter 190 value 209.271514  
## iter 200 value 209.250892  
## final value 209.250892   
## stopped after 200 iterations  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 525.837076   
## final value 503.139359   
## converged  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 510.084000   
## iter 10 value 503.105851  
## iter 20 value 503.105742  
## iter 30 value 503.105628  
## iter 40 value 503.105508  
## iter 50 value 503.105381  
## iter 60 value 503.105249  
## iter 70 value 503.105108  
## iter 80 value 503.104959  
## iter 90 value 503.104801  
## iter 100 value 503.104633  
## iter 110 value 503.104453  
## iter 120 value 503.104260  
## iter 130 value 503.104052  
## iter 140 value 503.103827  
## iter 150 value 503.103583  
## iter 160 value 503.103316  
## iter 170 value 503.103024  
## iter 180 value 503.102703  
## iter 190 value 503.102347  
## iter 200 value 503.101949  
## final value 503.101949   
## stopped after 200 iterations  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 565.860558   
## final value 503.147257   
## converged  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 505.230979   
## final value 503.003983   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 602.992268   
## final value 503.192211   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 510.964448   
## final value 503.126275   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 474.511003   
## iter 10 value 304.564511  
## iter 20 value 240.322556  
## iter 30 value 233.171485  
## iter 40 value 229.279712  
## iter 50 value 226.774481  
## iter 60 value 225.526594  
## iter 70 value 225.026809  
## iter 80 value 224.903881  
## iter 90 value 224.895683  
## iter 100 value 224.865290  
## iter 110 value 224.783507  
## iter 120 value 224.750295  
## iter 130 value 224.689678  
## iter 140 value 224.670928  
## iter 150 value 224.618683  
## iter 160 value 224.508030  
## iter 170 value 224.272952  
## iter 180 value 223.940460  
## iter 190 value 223.915989  
## iter 200 value 223.898985  
## final value 223.898985   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 495.321967   
## iter 10 value 418.852309  
## iter 20 value 412.450470  
## iter 30 value 411.431048  
## iter 40 value 384.094030  
## iter 50 value 370.779780  
## iter 60 value 365.219477  
## iter 70 value 362.134801  
## iter 80 value 357.666792  
## iter 90 value 356.318661  
## iter 100 value 355.054960  
## iter 110 value 354.545842  
## iter 120 value 354.250908  
## iter 130 value 353.941150  
## iter 140 value 353.875057  
## iter 150 value 353.851411  
## iter 160 value 353.545432  
## iter 170 value 353.329904  
## iter 180 value 353.283941  
## iter 190 value 353.201639  
## iter 200 value 353.177215  
## final value 353.177215   
## stopped after 200 iterations  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 516.968394   
## final value 503.131485   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 513.115917   
## final value 503.135826   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 472.955109   
## iter 10 value 320.325529  
## iter 20 value 271.120984  
## iter 30 value 232.542479  
## iter 40 value 225.721164  
## iter 50 value 224.120246  
## iter 60 value 221.691993  
## iter 70 value 217.125594  
## iter 80 value 216.512294  
## iter 90 value 216.364527  
## iter 100 value 216.133357  
## iter 110 value 216.120580  
## iter 120 value 216.080606  
## iter 130 value 216.008659  
## iter 140 value 215.949295  
## iter 150 value 215.863618  
## iter 160 value 215.616869  
## iter 170 value 215.585630  
## iter 180 value 215.570561  
## iter 190 value 215.562178  
## iter 200 value 215.557380  
## final value 215.557380   
## stopped after 200 iterations  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 486.362961   
## iter 10 value 261.016840  
## iter 20 value 226.915739  
## iter 30 value 224.538979  
## iter 40 value 222.616119  
## iter 50 value 221.129852  
## iter 60 value 218.511696  
## iter 70 value 215.341174  
## iter 80 value 213.821808  
## iter 90 value 212.700046  
## iter 100 value 212.670707  
## iter 110 value 211.965188  
## iter 120 value 210.896385  
## iter 130 value 210.658415  
## iter 140 value 210.566399  
## iter 150 value 210.485730  
## iter 160 value 210.288025  
## iter 170 value 210.199253  
## iter 180 value 210.198360  
## iter 190 value 210.176775  
## iter 200 value 210.097381  
## final value 210.097381   
## stopped after 200 iterations  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 483.460540   
## iter 10 value 299.295781  
## iter 20 value 231.081646  
## iter 30 value 225.212832  
## iter 40 value 222.657085  
## iter 50 value 220.972653  
## iter 60 value 214.304049  
## iter 70 value 211.540289  
## iter 80 value 210.566755  
## iter 90 value 210.264526  
## iter 100 value 210.204746  
## iter 110 value 210.123292  
## iter 120 value 209.993924  
## iter 130 value 209.939963  
## iter 140 value 209.814872  
## iter 150 value 209.551431  
## iter 160 value 209.446540  
## iter 170 value 209.333523  
## iter 180 value 209.333292  
## iter 190 value 209.332950  
## iter 200 value 209.332792  
## final value 209.332792   
## stopped after 200 iterations  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 523.511272   
## final value 503.140740   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 528.825222   
## final value 503.155282   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 473.946449   
## iter 10 value 315.218763  
## iter 20 value 242.690999  
## iter 30 value 231.990611  
## iter 40 value 226.358773  
## iter 50 value 224.210702  
## iter 60 value 223.489377  
## iter 70 value 222.861417  
## iter 80 value 221.577951  
## iter 90 value 221.172774  
## iter 100 value 221.105885  
## iter 110 value 220.972617  
## iter 120 value 220.817657  
## iter 130 value 220.676653  
## iter 140 value 220.464856  
## iter 150 value 220.148540  
## iter 160 value 220.009138  
## iter 170 value 219.999851  
## iter 180 value 219.998213  
## iter 190 value 219.991338  
## iter 200 value 219.925353  
## final value 219.925353   
## stopped after 200 iterations  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 465.521709   
## iter 10 value 354.679553  
## iter 20 value 293.878339  
## iter 30 value 285.581638  
## iter 40 value 282.760442  
## iter 50 value 281.951614  
## iter 60 value 279.211754  
## iter 70 value 276.532885  
## iter 80 value 274.471299  
## iter 90 value 273.271610  
## iter 100 value 272.982424  
## iter 110 value 271.996708  
## iter 120 value 269.907330  
## iter 130 value 269.157621  
## iter 140 value 267.926055  
## iter 150 value 266.756921  
## iter 160 value 265.973228  
## iter 170 value 265.793900  
## iter 180 value 265.751065  
## iter 190 value 265.422467  
## iter 200 value 265.173393  
## final value 265.173393   
## stopped after 200 iterations  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 457.358862   
## iter 10 value 317.523565  
## iter 20 value 303.779776  
## iter 30 value 282.491496  
## iter 40 value 241.199765  
## iter 50 value 233.152559  
## iter 60 value 231.652284  
## iter 70 value 230.911367  
## iter 80 value 229.563780  
## iter 90 value 228.063269  
## iter 100 value 228.008729  
## iter 110 value 227.820803  
## iter 120 value 227.718313  
## iter 130 value 227.705349  
## iter 140 value 227.701338  
## iter 150 value 227.688396  
## iter 160 value 227.673652  
## iter 170 value 227.647435  
## iter 180 value 227.558867  
## iter 190 value 227.512848  
## iter 200 value 227.511139  
## final value 227.511139   
## stopped after 200 iterations  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 449.966476   
## iter 10 value 292.950635  
## iter 20 value 252.168902  
## iter 30 value 244.906301  
## iter 40 value 243.062327  
## iter 50 value 240.839076  
## iter 60 value 238.768753  
## iter 70 value 231.863143  
## iter 80 value 229.477211  
## iter 90 value 228.280451  
## iter 100 value 227.733827  
## iter 110 value 227.622042  
## iter 120 value 227.510273  
## iter 130 value 227.122118  
## iter 140 value 226.439767  
## iter 150 value 226.049543  
## iter 160 value 226.033713  
## iter 170 value 226.032941  
## iter 180 value 226.031877  
## iter 190 value 226.030198  
## iter 200 value 226.027053  
## final value 226.027053   
## stopped after 200 iterations  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 497.991245   
## iter 10 value 277.127327  
## iter 20 value 243.221262  
## iter 30 value 232.947929  
## iter 40 value 226.626755  
## iter 50 value 222.779818  
## iter 60 value 219.600472  
## iter 70 value 219.130996  
## iter 80 value 219.044652  
## iter 90 value 219.037045  
## iter 100 value 219.032228  
## iter 110 value 219.029708  
## iter 120 value 219.021953  
## iter 130 value 218.999414  
## iter 140 value 218.982687  
## iter 150 value 218.966012  
## iter 160 value 218.960394  
## iter 170 value 218.953432  
## iter 180 value 218.683920  
## iter 190 value 218.550852  
## iter 200 value 218.530593  
## final value 218.530593   
## stopped after 200 iterations  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 470.257983   
## iter 10 value 326.882892  
## iter 20 value 255.157892  
## iter 30 value 235.941393  
## iter 40 value 226.147338  
## iter 50 value 225.141094  
## iter 60 value 224.541743  
## iter 70 value 221.622351  
## iter 80 value 221.008125  
## iter 90 value 220.781183  
## iter 100 value 220.726562  
## iter 110 value 220.518176  
## iter 120 value 220.269910  
## iter 130 value 220.251264  
## iter 140 value 220.192415  
## iter 150 value 220.118773  
## iter 160 value 220.068211  
## iter 170 value 220.066129  
## iter 180 value 220.058743  
## iter 190 value 220.038681  
## iter 200 value 220.026067  
## final value 220.026067   
## stopped after 200 iterations  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 523.914870   
## final value 503.134366   
## converged  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 535.675095   
## final value 503.157524   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 606.282653   
## final value 503.194161   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 553.977281   
## final value 503.168787   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 442.146315   
## iter 10 value 301.164191  
## iter 20 value 234.942190  
## iter 30 value 228.472432  
## iter 40 value 227.184861  
## iter 50 value 225.410769  
## iter 60 value 221.937455  
## iter 70 value 220.273982  
## iter 80 value 220.178431  
## iter 90 value 220.166068  
## iter 100 value 220.115302  
## iter 110 value 219.824802  
## iter 120 value 219.772778  
## iter 130 value 219.765250  
## iter 140 value 219.760016  
## iter 150 value 219.751913  
## iter 160 value 219.733823  
## iter 170 value 219.714332  
## iter 180 value 219.684885  
## iter 190 value 219.676838  
## iter 200 value 219.672449  
## final value 219.672449   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 540.096274   
## final value 503.151211   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 529.466720   
## final value 503.135811   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 444.616044   
## iter 10 value 346.094255  
## iter 20 value 230.579194  
## iter 30 value 220.280054  
## iter 40 value 216.358024  
## iter 50 value 215.333395  
## iter 60 value 214.950863  
## iter 70 value 214.868930  
## iter 80 value 213.820065  
## iter 90 value 213.298187  
## iter 100 value 213.221960  
## iter 110 value 213.169127  
## iter 120 value 213.008116  
## iter 130 value 212.140355  
## iter 140 value 211.947749  
## iter 150 value 211.725227  
## iter 160 value 211.570558  
## iter 170 value 211.339817  
## iter 180 value 210.731020  
## iter 190 value 210.422467  
## iter 200 value 210.112919  
## final value 210.112919   
## stopped after 200 iterations  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 463.279416   
## iter 10 value 282.361771  
## iter 20 value 225.468791  
## iter 30 value 219.584405  
## iter 40 value 217.636990  
## iter 50 value 214.047506  
## iter 60 value 213.457555  
## iter 70 value 213.393402  
## iter 80 value 213.295608  
## iter 90 value 212.759282  
## iter 100 value 212.629306  
## iter 110 value 212.557435  
## iter 120 value 212.413967  
## iter 130 value 212.274819  
## iter 140 value 212.224889  
## iter 150 value 212.219325  
## iter 160 value 212.213938  
## iter 170 value 212.212617  
## iter 180 value 212.210731  
## iter 190 value 212.207580  
## iter 200 value 212.200258  
## final value 212.200258   
## stopped after 200 iterations  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 483.266237   
## iter 10 value 314.910649  
## iter 20 value 237.928232  
## iter 30 value 230.814798  
## iter 40 value 229.971097  
## iter 50 value 229.195665  
## iter 60 value 226.132496  
## iter 70 value 224.883665  
## iter 80 value 224.797027  
## iter 90 value 224.784809  
## iter 100 value 224.773772  
## iter 110 value 224.766548  
## iter 120 value 224.712020  
## iter 130 value 224.667776  
## iter 140 value 224.647075  
## iter 150 value 224.594450  
## iter 160 value 224.576107  
## iter 170 value 224.541779  
## iter 180 value 224.505486  
## iter 190 value 224.489896  
## iter 200 value 224.484424  
## final value 224.484424   
## stopped after 200 iterations  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 509.053648   
## final value 503.130425   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 444.165696   
## iter 10 value 305.596575  
## iter 20 value 293.196452  
## iter 30 value 253.377059  
## iter 40 value 241.915031  
## iter 50 value 241.266071  
## iter 60 value 240.805515  
## iter 70 value 239.421657  
## iter 80 value 227.681931  
## iter 90 value 225.869476  
## iter 100 value 225.647603  
## iter 110 value 225.542919  
## iter 120 value 224.261464  
## iter 130 value 222.520975  
## iter 140 value 222.123887  
## iter 150 value 221.964901  
## iter 160 value 221.854983  
## iter 170 value 221.804472  
## iter 180 value 221.799049  
## iter 190 value 221.773419  
## iter 200 value 221.705908  
## final value 221.705908   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 542.700641   
## final value 503.163684   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 499.665567   
## iter 10 value 343.980797  
## iter 20 value 262.264016  
## iter 30 value 226.250042  
## iter 40 value 220.728794  
## iter 50 value 217.704814  
## iter 60 value 213.955472  
## iter 70 value 213.398203  
## iter 80 value 213.336869  
## iter 90 value 213.318458  
## iter 100 value 213.288720  
## iter 110 value 213.243071  
## iter 120 value 213.226630  
## iter 130 value 213.210978  
## iter 140 value 212.673030  
## iter 150 value 212.530291  
## iter 160 value 212.497577  
## iter 170 value 212.486540  
## iter 180 value 212.477828  
## iter 190 value 212.471798  
## iter 200 value 212.463934  
## final value 212.463934   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 465.593638   
## iter 10 value 311.622454  
## iter 20 value 249.090605  
## iter 30 value 233.510008  
## iter 40 value 231.146007  
## iter 50 value 228.221925  
## iter 60 value 225.469700  
## iter 70 value 224.817664  
## iter 80 value 224.697641  
## iter 90 value 224.660610  
## iter 100 value 223.930782  
## iter 110 value 223.550056  
## iter 120 value 223.373616  
## iter 130 value 223.145601  
## iter 140 value 223.110867  
## iter 150 value 223.096331  
## iter 160 value 223.016535  
## iter 170 value 222.921491  
## iter 180 value 222.730498  
## iter 190 value 222.667034  
## iter 200 value 222.656660  
## final value 222.656660   
## stopped after 200 iterations  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 499.563486   
## iter 10 value 286.871333  
## iter 20 value 230.771513  
## iter 30 value 226.645386  
## iter 40 value 224.976609  
## iter 50 value 222.786927  
## iter 60 value 221.435567  
## iter 70 value 220.909999  
## iter 80 value 220.215284  
## iter 90 value 220.026037  
## iter 100 value 219.992548  
## iter 110 value 219.946086  
## iter 120 value 219.778979  
## iter 130 value 219.422953  
## iter 140 value 219.398956  
## iter 150 value 219.398470  
## iter 160 value 219.392404  
## final value 219.390790   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 508.701591   
## final value 503.120568   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 489.716028   
## iter 10 value 322.950583  
## iter 20 value 248.246374  
## iter 30 value 231.611943  
## iter 40 value 228.311289  
## iter 50 value 227.191088  
## iter 60 value 224.112547  
## iter 70 value 223.195427  
## iter 80 value 222.343626  
## iter 90 value 221.919715  
## iter 100 value 221.819062  
## iter 110 value 221.737050  
## iter 120 value 221.691471  
## iter 130 value 221.620195  
## iter 140 value 221.498533  
## iter 150 value 220.986858  
## iter 160 value 219.430005  
## iter 170 value 218.970246  
## iter 180 value 218.893385  
## iter 190 value 218.699262  
## iter 200 value 218.552793  
## final value 218.552793   
## stopped after 200 iterations  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 491.252773   
## iter 10 value 293.706835  
## iter 20 value 231.231079  
## iter 30 value 227.373428  
## iter 40 value 226.457823  
## iter 50 value 223.705820  
## iter 60 value 222.927453  
## iter 70 value 222.248930  
## iter 80 value 222.074530  
## iter 90 value 222.066152  
## final value 222.065772   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 513.443028   
## final value 503.115727   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 467.364060   
## iter 10 value 316.895056  
## iter 20 value 273.122999  
## iter 30 value 247.117169  
## iter 40 value 236.873493  
## iter 50 value 234.071662  
## iter 60 value 231.346732  
## iter 70 value 228.039255  
## iter 80 value 226.991625  
## iter 90 value 226.884921  
## iter 100 value 226.855371  
## iter 110 value 226.818972  
## iter 120 value 226.730139  
## iter 130 value 226.615360  
## iter 140 value 226.503347  
## iter 150 value 226.346984  
## iter 160 value 226.212123  
## iter 170 value 226.191750  
## iter 180 value 226.186509  
## iter 190 value 226.183864  
## iter 200 value 226.177224  
## final value 226.177224   
## stopped after 200 iterations  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 563.956465   
## final value 503.179462   
## converged  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 476.969510   
## iter 10 value 352.631059  
## iter 20 value 246.064952  
## iter 30 value 237.212702  
## iter 40 value 226.384467  
## iter 50 value 224.675679  
## iter 60 value 223.689458  
## iter 70 value 222.616591  
## iter 80 value 222.384025  
## iter 90 value 222.162240  
## iter 100 value 221.983373  
## iter 110 value 221.975655  
## iter 120 value 221.972574  
## final value 221.972460   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 557.728866   
## final value 503.148385   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 501.262180   
## iter 10 value 340.423236  
## iter 20 value 258.499041  
## iter 30 value 238.770818  
## iter 40 value 229.091231  
## iter 50 value 225.651699  
## iter 60 value 224.788292  
## iter 70 value 222.632421  
## iter 80 value 221.636964  
## iter 90 value 221.319987  
## iter 100 value 221.180801  
## iter 110 value 220.667806  
## iter 120 value 220.471746  
## iter 130 value 220.453491  
## iter 140 value 220.448425  
## iter 150 value 220.368328  
## iter 160 value 220.308052  
## iter 170 value 220.253519  
## iter 180 value 220.186125  
## iter 190 value 220.178173  
## iter 200 value 220.168105  
## final value 220.168105   
## stopped after 200 iterations  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 516.587180   
## final value 503.132218   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 537.678080   
## final value 503.156282   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 556.035860   
## final value 503.170210   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 602.362030   
## final value 503.184690   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 494.945913   
## iter 10 value 336.441510  
## iter 20 value 267.145546  
## iter 30 value 244.488675  
## iter 40 value 228.032631  
## iter 50 value 224.995391  
## iter 60 value 221.564089  
## iter 70 value 221.081883  
## iter 80 value 220.903216  
## iter 90 value 220.509382  
## iter 100 value 220.445853  
## iter 110 value 220.402750  
## iter 120 value 220.332349  
## iter 130 value 220.315743  
## iter 140 value 220.297342  
## iter 150 value 220.267732  
## iter 160 value 220.242268  
## iter 170 value 220.218490  
## iter 180 value 220.151913  
## iter 190 value 220.118120  
## iter 200 value 220.105852  
## final value 220.105852   
## stopped after 200 iterations  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 579.359282   
## final value 503.154760   
## converged  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 485.260014   
## iter 10 value 284.357195  
## iter 20 value 239.961608  
## iter 30 value 232.485131  
## iter 40 value 229.325293  
## iter 50 value 226.959135  
## iter 60 value 225.767374  
## iter 70 value 224.924489  
## iter 80 value 224.473051  
## iter 90 value 224.321258  
## iter 100 value 224.213343  
## iter 110 value 223.977169  
## iter 120 value 223.845856  
## iter 130 value 223.686239  
## iter 140 value 223.174565  
## iter 150 value 223.017177  
## iter 160 value 222.970836  
## iter 170 value 222.874405  
## iter 180 value 222.714209  
## iter 190 value 222.525081  
## iter 200 value 222.481426  
## final value 222.481426   
## stopped after 200 iterations  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 462.577496   
## iter 10 value 305.062995  
## iter 20 value 234.672707  
## iter 30 value 216.381522  
## iter 40 value 213.050001  
## iter 50 value 206.235425  
## iter 60 value 204.982955  
## iter 70 value 204.889363  
## iter 80 value 204.846698  
## iter 90 value 204.841600  
## iter 100 value 204.833852  
## iter 110 value 204.684515  
## iter 120 value 204.499011  
## iter 130 value 204.394302  
## iter 140 value 204.160809  
## iter 150 value 204.128957  
## iter 160 value 204.045452  
## iter 170 value 204.008568  
## iter 180 value 203.996337  
## iter 190 value 203.991919  
## iter 200 value 203.988860  
## final value 203.988860   
## stopped after 200 iterations  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 486.139468   
## iter 10 value 333.283131  
## iter 20 value 283.667045  
## iter 30 value 227.452156  
## iter 40 value 221.322384  
## iter 50 value 217.875868  
## iter 60 value 216.748021  
## iter 70 value 214.173420  
## iter 80 value 213.181073  
## iter 90 value 212.924437  
## iter 100 value 212.694690  
## iter 110 value 212.576615  
## iter 120 value 212.537242  
## iter 130 value 212.486587  
## iter 140 value 212.297380  
## iter 150 value 212.249676  
## iter 160 value 212.245747  
## iter 170 value 212.187439  
## iter 180 value 212.178673  
## iter 190 value 212.037170  
## iter 200 value 212.026785  
## final value 212.026785   
## stopped after 200 iterations  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 563.352872   
## final value 503.146009   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 524.634811   
## final value 503.149776   
## converged  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 512.745940   
## iter 10 value 436.809552  
## iter 20 value 427.414680  
## iter 30 value 425.521289  
## iter 40 value 423.688426  
## iter 50 value 418.363662  
## iter 60 value 416.196918  
## iter 70 value 414.525840  
## iter 80 value 412.788119  
## iter 90 value 411.323444  
## iter 100 value 411.053779  
## iter 110 value 410.985748  
## iter 120 value 410.725058  
## iter 130 value 410.664478  
## iter 140 value 410.656161  
## iter 150 value 410.649147  
## iter 160 value 410.642493  
## iter 170 value 410.634445  
## iter 180 value 410.629387  
## iter 190 value 410.616202  
## iter 200 value 410.612587  
## final value 410.612587   
## stopped after 200 iterations  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 585.658078   
## final value 503.180995   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 510.192804   
## final value 503.120809   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 533.355230   
## final value 503.127437   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 521.874487   
## final value 503.125761   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 543.957271   
## final value 503.130374   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 596.746468   
## final value 503.183875   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 540.273398   
## final value 503.127346   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 564.656780   
## final value 503.156643   
## converged  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 565.805035   
## final value 503.183317   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 477.908473   
## iter 10 value 355.411914  
## iter 20 value 274.325290  
## iter 30 value 251.113373  
## iter 40 value 240.616043  
## iter 50 value 237.288536  
## iter 60 value 233.667836  
## iter 70 value 232.123123  
## iter 80 value 232.041431  
## iter 90 value 232.022432  
## iter 100 value 231.972565  
## iter 110 value 231.903412  
## iter 120 value 231.771505  
## iter 130 value 231.690077  
## iter 140 value 231.645018  
## iter 150 value 231.521772  
## iter 160 value 231.475160  
## iter 170 value 231.466596  
## iter 180 value 231.448680  
## iter 190 value 231.437388  
## iter 200 value 231.420830  
## final value 231.420830   
## stopped after 200 iterations  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 526.537956   
## final value 503.139772   
## converged  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 538.607223   
## final value 503.143152   
## converged  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 490.146503   
## iter 10 value 360.994048  
## iter 20 value 260.722144  
## iter 30 value 233.251464  
## iter 40 value 231.495434  
## iter 50 value 229.731789  
## iter 60 value 228.785353  
## iter 70 value 228.255737  
## iter 80 value 228.216910  
## iter 90 value 227.432528  
## iter 100 value 226.961217  
## iter 110 value 226.904889  
## iter 120 value 226.707150  
## iter 130 value 225.599318  
## iter 140 value 225.564195  
## iter 150 value 225.553155  
## iter 160 value 225.545616  
## iter 170 value 225.508903  
## iter 180 value 225.382458  
## iter 190 value 225.364523  
## iter 200 value 225.355309  
## final value 225.355309   
## stopped after 200 iterations  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 499.246429   
## iter 10 value 350.722719  
## iter 20 value 292.221278  
## iter 30 value 278.804495  
## iter 40 value 266.871416  
## iter 50 value 264.302220  
## iter 60 value 263.617039  
## iter 70 value 261.413988  
## iter 80 value 260.318438  
## iter 90 value 260.050556  
## iter 100 value 259.958014  
## iter 110 value 259.892553  
## iter 120 value 259.579594  
## iter 130 value 259.198172  
## iter 140 value 259.129633  
## iter 150 value 259.053100  
## iter 160 value 258.956854  
## iter 170 value 258.685639  
## iter 180 value 258.551511  
## iter 190 value 258.409642  
## iter 200 value 258.085337  
## final value 258.085337   
## stopped after 200 iterations  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 466.463126   
## iter 10 value 351.232357  
## iter 20 value 241.932147  
## iter 30 value 217.508741  
## iter 40 value 215.425410  
## iter 50 value 210.115250  
## iter 60 value 206.376037  
## iter 70 value 205.594931  
## iter 80 value 205.515352  
## iter 90 value 205.497171  
## iter 100 value 205.489426  
## iter 110 value 205.467548  
## iter 120 value 205.433985  
## iter 130 value 205.425694  
## iter 140 value 205.423864  
## iter 150 value 205.414519  
## iter 160 value 205.383553  
## iter 170 value 205.175659  
## iter 180 value 205.104785  
## iter 190 value 205.092099  
## iter 200 value 205.091453  
## final value 205.091453   
## stopped after 200 iterations  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 478.223808   
## iter 10 value 311.514419  
## iter 20 value 238.020000  
## iter 30 value 229.516824  
## iter 40 value 225.345268  
## iter 50 value 220.994108  
## iter 60 value 218.674387  
## iter 70 value 216.730103  
## iter 80 value 216.528827  
## iter 90 value 216.517335  
## iter 100 value 216.482154  
## iter 110 value 216.449063  
## iter 120 value 216.432877  
## iter 130 value 216.359378  
## iter 140 value 216.273260  
## iter 150 value 216.206943  
## iter 160 value 216.147634  
## iter 170 value 216.080298  
## iter 180 value 216.013542  
## iter 190 value 215.996732  
## iter 200 value 215.978909  
## final value 215.978909   
## stopped after 200 iterations  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 484.905407   
## iter 10 value 348.959832  
## iter 20 value 246.857812  
## iter 30 value 227.243552  
## iter 40 value 224.527839  
## iter 50 value 223.011485  
## iter 60 value 217.174072  
## iter 70 value 215.240861  
## iter 80 value 214.676469  
## iter 90 value 214.524403  
## iter 100 value 214.447922  
## iter 110 value 214.294261  
## iter 120 value 214.185841  
## iter 130 value 213.989483  
## iter 140 value 212.681185  
## iter 150 value 211.698965  
## iter 160 value 211.077768  
## iter 170 value 210.946353  
## iter 180 value 210.921999  
## iter 190 value 210.904106  
## iter 200 value 210.882792  
## final value 210.882792   
## stopped after 200 iterations  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 503.783920   
## iter 10 value 502.937505  
## iter 20 value 502.805208  
## iter 30 value 444.510830  
## iter 40 value 428.922036  
## iter 50 value 426.787394  
## iter 60 value 422.358024  
## iter 70 value 420.637356  
## iter 80 value 420.622465  
## iter 90 value 420.610803  
## iter 100 value 420.599421  
## iter 110 value 420.592400  
## iter 120 value 420.590862  
## iter 130 value 420.588092  
## iter 140 value 420.585466  
## iter 150 value 420.578876  
## iter 160 value 420.568370  
## iter 170 value 420.552479  
## iter 180 value 420.540249  
## iter 190 value 420.450501  
## iter 200 value 377.337300  
## final value 377.337300   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 550.355532   
## final value 503.166535   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 539.073959   
## final value 503.133648   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 482.168770   
## iter 10 value 310.712253  
## iter 20 value 281.220696  
## iter 30 value 245.420564  
## iter 40 value 219.981450  
## iter 50 value 216.309464  
## iter 60 value 214.633686  
## iter 70 value 208.945537  
## iter 80 value 204.372922  
## iter 90 value 203.654424  
## iter 100 value 203.555629  
## iter 110 value 203.472337  
## iter 120 value 203.464526  
## iter 130 value 203.456831  
## iter 140 value 203.430325  
## iter 150 value 203.413049  
## iter 160 value 203.406099  
## iter 170 value 203.392357  
## iter 180 value 202.775226  
## iter 190 value 202.730748  
## iter 200 value 202.727665  
## final value 202.727665   
## stopped after 200 iterations  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 512.414749   
## final value 503.115219   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 480.289230   
## iter 10 value 332.903511  
## iter 20 value 245.768315  
## iter 30 value 219.821832  
## iter 40 value 217.043813  
## iter 50 value 215.455966  
## iter 60 value 212.418045  
## iter 70 value 212.193103  
## iter 80 value 212.083062  
## iter 90 value 211.990171  
## iter 100 value 211.963641  
## iter 110 value 211.912188  
## iter 120 value 211.860717  
## iter 130 value 211.785062  
## iter 140 value 211.745734  
## iter 150 value 211.727832  
## iter 160 value 211.720462  
## iter 170 value 211.713691  
## iter 180 value 211.709767  
## iter 190 value 211.704343  
## iter 200 value 211.699585  
## final value 211.699585   
## stopped after 200 iterations  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 530.913587   
## final value 503.130542   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 473.370027   
## iter 10 value 308.230505  
## iter 20 value 265.243257  
## iter 30 value 254.865058  
## iter 40 value 241.222308  
## iter 50 value 238.760858  
## iter 60 value 237.570449  
## iter 70 value 228.707679  
## iter 80 value 227.758559  
## iter 90 value 226.375452  
## iter 100 value 224.010994  
## iter 110 value 223.035033  
## iter 120 value 221.372228  
## iter 130 value 216.839371  
## iter 140 value 213.701910  
## iter 150 value 212.534235  
## iter 160 value 212.381781  
## iter 170 value 212.336413  
## iter 180 value 212.327875  
## iter 190 value 212.320150  
## iter 200 value 212.308325  
## final value 212.308325   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 494.578009   
## iter 10 value 282.460491  
## iter 20 value 232.313296  
## iter 30 value 226.228364  
## iter 40 value 224.995386  
## iter 50 value 223.803730  
## iter 60 value 220.203571  
## iter 70 value 219.534306  
## iter 80 value 219.459831  
## iter 90 value 219.440458  
## iter 100 value 219.437497  
## iter 110 value 219.435410  
## iter 120 value 219.434024  
## iter 130 value 219.432550  
## iter 140 value 219.429036  
## iter 150 value 219.377229  
## iter 160 value 219.296617  
## final value 219.296452   
## converged  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 486.705189   
## iter 10 value 313.169916  
## iter 20 value 233.436808  
## iter 30 value 217.853699  
## iter 40 value 215.948005  
## iter 50 value 214.203057  
## iter 60 value 208.030416  
## iter 70 value 206.923568  
## iter 80 value 206.812740  
## iter 90 value 206.718753  
## iter 100 value 206.685231  
## iter 110 value 206.498801  
## iter 120 value 206.298053  
## iter 130 value 206.103236  
## iter 140 value 205.683272  
## iter 150 value 205.557897  
## iter 160 value 205.504436  
## iter 170 value 205.484783  
## iter 180 value 205.454820  
## iter 190 value 205.350672  
## iter 200 value 205.316726  
## final value 205.316726   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 505.110910   
## iter 10 value 502.873397  
## iter 20 value 462.091946  
## iter 30 value 446.348150  
## iter 40 value 441.036451  
## iter 50 value 440.133767  
## iter 60 value 440.101513  
## iter 70 value 439.699548  
## iter 80 value 387.579696  
## iter 90 value 373.155276  
## iter 100 value 372.058905  
## iter 110 value 370.840473  
## iter 120 value 370.620986  
## iter 130 value 370.569468  
## iter 140 value 370.250628  
## iter 150 value 369.704399  
## iter 160 value 369.682124  
## iter 170 value 369.666825  
## iter 180 value 369.634039  
## iter 190 value 369.601594  
## iter 200 value 369.574393  
## final value 369.574393   
## stopped after 200 iterations  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 452.251241   
## iter 10 value 300.172333  
## iter 20 value 237.056952  
## iter 30 value 218.686242  
## iter 40 value 214.968398  
## iter 50 value 211.086932  
## iter 60 value 210.604528  
## iter 70 value 210.449734  
## iter 80 value 210.390900  
## iter 90 value 210.364756  
## iter 100 value 210.325398  
## iter 110 value 210.182414  
## iter 120 value 210.023960  
## iter 130 value 209.981801  
## iter 140 value 209.955344  
## iter 150 value 209.887896  
## iter 160 value 209.862470  
## iter 170 value 209.856120  
## iter 180 value 209.849289  
## iter 190 value 209.841684  
## iter 200 value 209.818854  
## final value 209.818854   
## stopped after 200 iterations  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 540.882651   
## final value 503.147015   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 586.474102   
## final value 503.181815   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 501.300255   
## iter 10 value 275.701518  
## iter 20 value 241.005067  
## iter 30 value 235.957166  
## iter 40 value 232.087312  
## iter 50 value 225.548896  
## iter 60 value 224.097043  
## iter 70 value 223.007190  
## iter 80 value 221.697524  
## iter 90 value 221.337001  
## iter 100 value 221.123269  
## iter 110 value 221.040198  
## iter 120 value 220.445390  
## iter 130 value 220.309906  
## iter 140 value 220.197587  
## iter 150 value 220.025919  
## iter 160 value 219.716427  
## iter 170 value 219.636516  
## iter 180 value 219.623314  
## iter 190 value 219.587856  
## iter 200 value 219.028022  
## final value 219.028022   
## stopped after 200 iterations  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 530.044929   
## final value 503.135568   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 428.011546   
## iter 10 value 246.197585  
## iter 20 value 223.743069  
## iter 30 value 218.599986  
## iter 40 value 216.472599  
## iter 50 value 214.097882  
## iter 60 value 212.239433  
## iter 70 value 211.888095  
## iter 80 value 211.872435  
## iter 90 value 211.868581  
## iter 100 value 211.863946  
## iter 110 value 211.850897  
## iter 120 value 211.792079  
## iter 130 value 211.700398  
## iter 140 value 211.337377  
## iter 150 value 210.798164  
## iter 160 value 210.554812  
## iter 170 value 210.510081  
## iter 180 value 210.473977  
## iter 190 value 210.425683  
## iter 200 value 210.399912  
## final value 210.399912   
## stopped after 200 iterations  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 556.690583   
## final value 503.147043   
## converged  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 510.716612   
## final value 503.129526   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 498.026692   
## iter 10 value 293.546078  
## iter 20 value 227.423674  
## iter 30 value 221.367263  
## iter 40 value 218.951421  
## iter 50 value 216.681119  
## iter 60 value 216.559541  
## iter 70 value 216.457850  
## iter 80 value 216.417313  
## iter 90 value 216.383698  
## iter 100 value 216.284656  
## iter 110 value 216.081125  
## iter 120 value 215.853270  
## iter 130 value 215.128603  
## iter 140 value 215.090062  
## iter 150 value 215.074142  
## iter 160 value 215.040032  
## iter 170 value 215.004169  
## iter 180 value 214.949765  
## iter 190 value 214.923005  
## iter 200 value 214.916433  
## final value 214.916433   
## stopped after 200 iterations  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 465.085880   
## iter 10 value 328.884126  
## iter 20 value 256.909000  
## iter 30 value 227.629327  
## iter 40 value 217.338956  
## iter 50 value 215.060163  
## iter 60 value 213.170170  
## iter 70 value 211.796329  
## iter 80 value 210.965766  
## iter 90 value 210.740325  
## iter 100 value 210.391349  
## iter 110 value 210.367486  
## iter 120 value 210.288660  
## iter 130 value 209.976635  
## iter 140 value 209.852661  
## iter 150 value 209.458445  
## iter 160 value 209.303373  
## iter 170 value 209.284238  
## iter 180 value 209.176387  
## iter 190 value 209.139563  
## iter 200 value 209.118748  
## final value 209.118748   
## stopped after 200 iterations  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 553.800262   
## final value 503.154756   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 488.076386   
## iter 10 value 354.902521  
## iter 20 value 249.288494  
## iter 30 value 238.098043  
## iter 40 value 234.422681  
## iter 50 value 227.511390  
## iter 60 value 221.964053  
## iter 70 value 221.485122  
## iter 80 value 221.433158  
## iter 90 value 221.413779  
## iter 100 value 221.352611  
## iter 110 value 221.342455  
## iter 120 value 221.332516  
## iter 130 value 221.327018  
## iter 140 value 221.323821  
## iter 150 value 221.322644  
## iter 160 value 221.322070  
## iter 170 value 221.321576  
## iter 180 value 221.321342  
## iter 190 value 221.320979  
## iter 200 value 221.320395  
## final value 221.320395   
## stopped after 200 iterations  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 607.069351   
## final value 503.181699   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 615.015507   
## final value 503.195319   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 550.335194   
## final value 503.174969   
## converged  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 531.005814   
## final value 503.126571   
## converged  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 553.084691   
## final value 503.153518   
## converged  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 517.194487   
## final value 503.125323   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 481.456224   
## iter 10 value 313.155059  
## iter 20 value 259.784816  
## iter 30 value 243.852546  
## iter 40 value 233.938400  
## iter 50 value 228.307870  
## iter 60 value 225.738842  
## iter 70 value 223.296490  
## iter 80 value 223.182332  
## iter 90 value 223.123465  
## iter 100 value 222.570681  
## iter 110 value 222.394491  
## iter 120 value 222.388929  
## iter 130 value 222.383075  
## iter 140 value 222.352454  
## iter 150 value 222.285642  
## iter 160 value 222.263216  
## iter 170 value 222.252768  
## iter 180 value 222.242770  
## iter 190 value 222.230856  
## iter 200 value 222.221832  
## final value 222.221832   
## stopped after 200 iterations  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 490.996310   
## iter 10 value 341.548900  
## iter 20 value 240.985254  
## iter 30 value 227.523057  
## iter 40 value 221.237712  
## iter 50 value 218.536923  
## iter 60 value 214.987001  
## iter 70 value 212.961605  
## iter 80 value 212.813785  
## iter 90 value 212.761838  
## iter 100 value 212.681615  
## iter 110 value 212.646943  
## iter 120 value 212.604569  
## iter 130 value 212.468153  
## iter 140 value 212.441048  
## iter 150 value 212.399992  
## iter 160 value 212.348319  
## iter 170 value 212.336947  
## iter 180 value 212.331361  
## iter 190 value 212.330576  
## iter 200 value 212.329566  
## final value 212.329566   
## stopped after 200 iterations  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 431.649801   
## iter 10 value 292.216210  
## iter 20 value 237.562152  
## iter 30 value 231.022682  
## iter 40 value 226.839573  
## iter 50 value 225.475924  
## iter 60 value 224.617553  
## iter 70 value 223.041532  
## iter 80 value 220.145676  
## iter 90 value 219.879510  
## iter 100 value 219.636333  
## iter 110 value 219.482294  
## iter 120 value 219.442783  
## iter 130 value 219.386079  
## iter 140 value 218.990488  
## iter 150 value 218.927878  
## iter 160 value 218.321547  
## iter 170 value 218.200537  
## iter 180 value 217.921454  
## iter 190 value 217.899891  
## iter 200 value 217.875463  
## final value 217.875463   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 542.370381   
## final value 503.134624   
## converged  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 509.596465   
## final value 503.110381   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 505.065408   
## iter 10 value 502.997684  
## iter 20 value 502.997055  
## iter 30 value 502.996315  
## iter 40 value 502.995430  
## iter 50 value 502.994352  
## iter 60 value 502.993006  
## iter 70 value 502.991282  
## iter 80 value 502.988990  
## iter 90 value 502.985797  
## iter 100 value 502.981036  
## iter 110 value 502.973195  
## iter 120 value 502.957897  
## iter 130 value 502.915409  
## iter 140 value 502.423318  
## iter 150 value 433.442086  
## iter 160 value 426.901348  
## iter 170 value 423.744323  
## iter 180 value 422.091722  
## iter 190 value 421.816798  
## iter 200 value 421.776500  
## final value 421.776500   
## stopped after 200 iterations  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 488.361699   
## iter 10 value 335.365602  
## iter 20 value 268.011202  
## iter 30 value 247.642349  
## iter 40 value 243.533280  
## iter 50 value 242.677749  
## iter 60 value 240.633495  
## iter 70 value 237.906281  
## iter 80 value 237.810420  
## iter 90 value 237.803974  
## iter 100 value 237.797822  
## iter 110 value 237.782427  
## iter 120 value 237.778856  
## iter 130 value 237.773671  
## iter 140 value 237.770053  
## iter 150 value 237.767472  
## iter 160 value 237.764753  
## iter 170 value 237.760259  
## iter 180 value 237.758784  
## iter 190 value 237.757225  
## iter 200 value 237.754883  
## final value 237.754883   
## stopped after 200 iterations  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 570.520616   
## final value 503.164148   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 542.392291   
## final value 503.144160   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 557.988008   
## final value 503.149815   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 500.734460   
## iter 10 value 416.274567  
## iter 20 value 413.078646  
## iter 30 value 410.511637  
## iter 40 value 407.912286  
## iter 50 value 354.168936  
## iter 60 value 352.341119  
## iter 70 value 351.288104  
## iter 80 value 350.669696  
## iter 90 value 350.479554  
## iter 100 value 350.459027  
## iter 110 value 350.420309  
## iter 120 value 350.203405  
## iter 130 value 350.161238  
## iter 140 value 350.132662  
## iter 150 value 350.117371  
## iter 160 value 350.105063  
## iter 170 value 350.062734  
## iter 180 value 349.885588  
## iter 190 value 348.759276  
## iter 200 value 323.982984  
## final value 323.982984   
## stopped after 200 iterations  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 479.120387   
## iter 10 value 337.350654  
## iter 20 value 242.654779  
## iter 30 value 227.657818  
## iter 40 value 222.799659  
## iter 50 value 221.168895  
## iter 60 value 217.356631  
## iter 70 value 216.638723  
## iter 80 value 216.613292  
## iter 90 value 216.606890  
## iter 100 value 216.536474  
## iter 110 value 216.467557  
## iter 120 value 216.326551  
## iter 130 value 216.237428  
## iter 140 value 216.147619  
## iter 150 value 216.128484  
## iter 160 value 216.123997  
## iter 170 value 216.118221  
## iter 180 value 216.111943  
## iter 190 value 216.092652  
## iter 200 value 216.074386  
## final value 216.074386   
## stopped after 200 iterations  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 531.499451   
## final value 503.145598   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 460.200858   
## iter 10 value 323.232056  
## iter 20 value 250.386010  
## iter 30 value 227.051968  
## iter 40 value 223.962668  
## iter 50 value 222.170541  
## iter 60 value 219.934858  
## iter 70 value 219.720202  
## iter 80 value 219.503507  
## iter 90 value 219.213500  
## iter 100 value 219.050839  
## iter 110 value 218.978683  
## iter 120 value 218.948954  
## iter 130 value 218.919510  
## iter 140 value 218.893805  
## iter 150 value 218.862064  
## iter 160 value 218.831857  
## iter 170 value 218.823432  
## iter 180 value 218.816301  
## iter 190 value 218.813475  
## iter 200 value 218.811122  
## final value 218.811122   
## stopped after 200 iterations  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 555.528389   
## final value 503.134163   
## converged  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 493.924402   
## iter 10 value 336.981053  
## iter 20 value 239.971720  
## iter 30 value 227.170671  
## iter 40 value 220.566338  
## iter 50 value 216.166540  
## iter 60 value 215.185572  
## iter 70 value 214.441864  
## iter 80 value 214.325380  
## iter 90 value 214.087189  
## iter 100 value 214.046183  
## iter 110 value 214.036004  
## iter 120 value 213.997211  
## iter 130 value 213.858198  
## iter 140 value 212.246672  
## iter 150 value 211.963399  
## iter 160 value 211.853744  
## iter 170 value 211.665001  
## iter 180 value 211.635485  
## iter 190 value 211.628263  
## iter 200 value 211.623786  
## final value 211.623786   
## stopped after 200 iterations  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 534.328737   
## final value 503.161363   
## converged  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 453.752567   
## iter 10 value 295.138098  
## iter 20 value 250.273695  
## iter 30 value 244.199860  
## iter 40 value 243.277527  
## iter 50 value 241.417794  
## iter 60 value 238.957778  
## iter 70 value 236.673132  
## iter 80 value 233.590880  
## iter 90 value 232.547616  
## iter 100 value 231.795630  
## iter 110 value 231.363525  
## iter 120 value 230.550732  
## iter 130 value 229.570901  
## iter 140 value 228.688880  
## iter 150 value 228.072993  
## iter 160 value 227.918993  
## iter 170 value 227.744027  
## iter 180 value 227.697516  
## iter 190 value 227.689328  
## iter 200 value 227.677151  
## final value 227.677151   
## stopped after 200 iterations  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 499.132011   
## iter 10 value 352.926569  
## iter 20 value 248.258663  
## iter 30 value 231.765667  
## iter 40 value 223.742642  
## iter 50 value 221.417943  
## iter 60 value 218.985831  
## iter 70 value 217.331520  
## iter 80 value 215.259289  
## iter 90 value 214.208322  
## iter 100 value 213.905160  
## iter 110 value 213.762562  
## iter 120 value 213.713585  
## iter 130 value 213.688474  
## iter 140 value 213.604721  
## iter 150 value 213.570025  
## iter 160 value 213.556049  
## iter 170 value 213.543890  
## iter 180 value 213.537176  
## iter 190 value 213.528606  
## iter 200 value 213.515003  
## final value 213.515003   
## stopped after 200 iterations  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 573.478948   
## final value 503.162383   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 608.498533   
## final value 503.194771   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 501.671874   
## iter 10 value 293.612593  
## iter 20 value 241.099816  
## iter 30 value 236.276281  
## iter 40 value 227.873889  
## iter 50 value 221.707239  
## iter 60 value 218.937270  
## iter 70 value 215.664481  
## iter 80 value 215.447904  
## iter 90 value 215.371166  
## iter 100 value 215.156494  
## iter 110 value 214.986295  
## iter 120 value 214.796527  
## iter 130 value 214.721302  
## iter 140 value 214.623666  
## iter 150 value 214.601473  
## iter 160 value 214.588916  
## iter 170 value 214.557669  
## iter 180 value 214.485598  
## iter 190 value 214.446021  
## iter 200 value 214.204884  
## final value 214.204884   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 494.779401   
## iter 10 value 332.913483  
## iter 20 value 303.074742  
## iter 30 value 261.152620  
## iter 40 value 232.969573  
## iter 50 value 219.995925  
## iter 60 value 216.247043  
## iter 70 value 214.291485  
## iter 80 value 208.398984  
## iter 90 value 205.531898  
## iter 100 value 205.159333  
## iter 110 value 204.857553  
## iter 120 value 204.816473  
## iter 130 value 204.451975  
## iter 140 value 204.382212  
## iter 150 value 204.286940  
## iter 160 value 204.203602  
## iter 170 value 204.128892  
## iter 180 value 204.056370  
## iter 190 value 203.631703  
## iter 200 value 203.402323  
## final value 203.402323   
## stopped after 200 iterations  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 542.825182   
## final value 503.157210   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 521.547454   
## final value 503.133617   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 551.667988   
## final value 503.147421   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 546.067237   
## final value 503.150445   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 522.207553   
## final value 503.124196   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 492.562010   
## iter 10 value 348.193469  
## iter 20 value 257.238164  
## iter 30 value 239.064123  
## iter 40 value 233.676765  
## iter 50 value 231.977221  
## iter 60 value 227.789407  
## iter 70 value 226.497208  
## iter 80 value 226.059584  
## iter 90 value 225.773655  
## iter 100 value 225.462456  
## iter 110 value 225.421401  
## iter 120 value 225.415788  
## iter 130 value 225.408323  
## iter 140 value 225.377135  
## iter 150 value 225.349486  
## iter 160 value 225.331707  
## iter 170 value 225.322756  
## iter 180 value 225.322038  
## iter 190 value 225.320174  
## iter 200 value 225.318681  
## final value 225.318681   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 448.550199   
## iter 10 value 304.423415  
## iter 20 value 231.909590  
## iter 30 value 217.867679  
## iter 40 value 215.350578  
## iter 50 value 212.166551  
## iter 60 value 206.709383  
## iter 70 value 205.050618  
## iter 80 value 204.641121  
## iter 90 value 204.405408  
## iter 100 value 204.352839  
## iter 110 value 204.343487  
## iter 120 value 204.306786  
## iter 130 value 204.296116  
## iter 140 value 204.288666  
## iter 150 value 204.281858  
## iter 160 value 204.270268  
## iter 170 value 204.262674  
## iter 180 value 204.258389  
## iter 190 value 204.256218  
## iter 200 value 204.253318  
## final value 204.253318   
## stopped after 200 iterations  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 464.401631   
## iter 10 value 276.259953  
## iter 20 value 226.902450  
## iter 30 value 223.966692  
## iter 40 value 219.576712  
## iter 50 value 212.480513  
## iter 60 value 211.845834  
## iter 70 value 211.800206  
## iter 80 value 211.766068  
## iter 90 value 211.755246  
## iter 100 value 211.744638  
## iter 110 value 211.703925  
## iter 120 value 211.665614  
## iter 130 value 211.519003  
## iter 140 value 211.456926  
## iter 150 value 211.412042  
## iter 160 value 211.409351  
## final value 211.408938   
## converged  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 510.757146   
## final value 503.113312   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 620.323310   
## final value 503.174129   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 579.229328   
## final value 503.190736   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 498.724694   
## iter 10 value 314.805714  
## iter 20 value 234.248240  
## iter 30 value 225.933806  
## iter 40 value 224.051533  
## iter 50 value 223.102692  
## iter 60 value 220.230281  
## iter 70 value 219.749426  
## iter 80 value 219.521522  
## iter 90 value 219.459021  
## iter 100 value 219.439275  
## iter 110 value 219.272776  
## iter 120 value 218.770848  
## iter 130 value 218.298497  
## iter 140 value 218.045114  
## iter 150 value 218.006144  
## iter 160 value 217.992488  
## iter 170 value 217.962357  
## iter 180 value 217.914697  
## iter 190 value 217.899222  
## iter 200 value 217.737142  
## final value 217.737142   
## stopped after 200 iterations  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 478.188598   
## iter 10 value 341.558904  
## iter 20 value 269.672747  
## iter 30 value 246.449310  
## iter 40 value 230.077763  
## iter 50 value 227.947693  
## iter 60 value 226.346350  
## iter 70 value 225.937480  
## iter 80 value 225.775808  
## iter 90 value 225.715206  
## iter 100 value 225.640076  
## iter 110 value 225.542309  
## iter 120 value 225.428760  
## iter 130 value 224.732974  
## iter 140 value 224.407462  
## iter 150 value 224.394393  
## iter 160 value 224.389675  
## iter 170 value 224.383310  
## iter 180 value 224.381903  
## iter 190 value 224.381056  
## iter 200 value 224.378649  
## final value 224.378649   
## stopped after 200 iterations  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 527.354158   
## final value 503.158213   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 530.494241   
## final value 503.131984   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 464.597847   
## iter 10 value 355.709032  
## iter 20 value 295.819444  
## iter 30 value 245.858301  
## iter 40 value 237.416170  
## iter 50 value 231.865087  
## iter 60 value 227.368278  
## iter 70 value 226.715825  
## iter 80 value 225.737875  
## iter 90 value 225.283318  
## iter 100 value 225.147533  
## iter 110 value 224.897868  
## iter 120 value 224.316576  
## iter 130 value 222.420745  
## iter 140 value 221.766930  
## iter 150 value 221.381735  
## iter 160 value 221.265545  
## iter 170 value 221.153531  
## iter 180 value 221.125567  
## iter 190 value 221.064584  
## iter 200 value 221.035507  
## final value 221.035507   
## stopped after 200 iterations  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 502.482980   
## iter 10 value 350.577415  
## iter 20 value 290.039829  
## iter 30 value 230.497057  
## iter 40 value 218.401430  
## iter 50 value 216.409096  
## iter 60 value 215.296143  
## iter 70 value 214.823756  
## iter 80 value 214.440866  
## iter 90 value 213.821603  
## iter 100 value 213.393475  
## iter 110 value 213.342308  
## iter 120 value 213.265102  
## iter 130 value 213.083475  
## iter 140 value 212.937501  
## iter 150 value 212.844118  
## iter 160 value 212.839091  
## iter 170 value 212.761890  
## iter 180 value 212.444065  
## iter 190 value 212.337605  
## iter 200 value 212.097788  
## final value 212.097788   
## stopped after 200 iterations  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 558.719739   
## final value 503.163520   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 537.032624   
## final value 503.155363   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 494.216204   
## iter 10 value 321.605435  
## iter 20 value 242.574137  
## iter 30 value 226.903223  
## iter 40 value 223.383165  
## iter 50 value 220.146727  
## iter 60 value 216.100116  
## iter 70 value 215.198030  
## iter 80 value 215.042743  
## iter 90 value 214.999953  
## iter 100 value 214.852512  
## iter 110 value 214.737109  
## iter 120 value 214.645316  
## iter 130 value 214.608200  
## iter 140 value 214.561613  
## iter 150 value 214.438804  
## iter 160 value 214.183795  
## iter 170 value 213.661016  
## iter 180 value 213.597115  
## iter 190 value 213.475643  
## iter 200 value 213.359979  
## final value 213.359979   
## stopped after 200 iterations  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 567.349329   
## final value 503.179074   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 547.835868   
## final value 503.150289   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 582.480524   
## final value 503.185509   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 492.977323   
## iter 10 value 302.910112  
## iter 20 value 244.806882  
## iter 30 value 227.784743  
## iter 40 value 223.626447  
## iter 50 value 222.078769  
## iter 60 value 220.195449  
## iter 70 value 214.482874  
## iter 80 value 211.309347  
## iter 90 value 210.672959  
## iter 100 value 210.155015  
## iter 110 value 209.691474  
## iter 120 value 209.641784  
## iter 130 value 209.515641  
## iter 140 value 209.177330  
## iter 150 value 208.948910  
## iter 160 value 208.856426  
## iter 170 value 208.852212  
## iter 180 value 208.851775  
## iter 190 value 208.849820  
## iter 200 value 208.848395  
## final value 208.848395   
## stopped after 200 iterations  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 527.315572   
## iter 10 value 432.809671  
## iter 20 value 425.270698  
## iter 30 value 422.872056  
## iter 40 value 420.854168  
## iter 50 value 419.937983  
## iter 60 value 418.392290  
## iter 70 value 417.195801  
## iter 80 value 416.999768  
## iter 90 value 416.931901  
## iter 100 value 416.871837  
## iter 110 value 416.859880  
## iter 120 value 416.849810  
## iter 130 value 416.816963  
## iter 140 value 416.152026  
## iter 150 value 416.129966  
## iter 160 value 416.123719  
## iter 170 value 416.119991  
## iter 180 value 416.117119  
## iter 190 value 416.113758  
## iter 200 value 416.106551  
## final value 416.106551   
## stopped after 200 iterations  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 510.082518   
## final value 503.132802   
## converged  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 532.533601   
## final value 503.144738   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 429.130338   
## iter 10 value 274.377280  
## iter 20 value 244.375191  
## iter 30 value 236.565544  
## iter 40 value 233.330746  
## iter 50 value 232.185075  
## iter 60 value 230.569305  
## iter 70 value 227.893403  
## iter 80 value 227.711321  
## iter 90 value 227.678509  
## iter 100 value 227.339375  
## iter 110 value 227.068217  
## iter 120 value 227.020538  
## iter 130 value 226.866987  
## iter 140 value 226.691747  
## iter 150 value 226.475065  
## iter 160 value 226.409844  
## iter 170 value 226.377433  
## iter 180 value 226.361245  
## iter 190 value 226.356949  
## iter 200 value 226.342508  
## final value 226.342508   
## stopped after 200 iterations  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 550.211726   
## final value 503.153443   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 531.332703   
## final value 503.154215   
## converged  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 488.013775   
## iter 10 value 342.114692  
## iter 20 value 239.986674  
## iter 30 value 226.178983  
## iter 40 value 223.141764  
## iter 50 value 216.474832  
## iter 60 value 214.174107  
## iter 70 value 213.785313  
## iter 80 value 213.753462  
## iter 90 value 213.711837  
## iter 100 value 213.668835  
## iter 110 value 213.272763  
## iter 120 value 213.057557  
## iter 130 value 213.005145  
## iter 140 value 212.992026  
## iter 150 value 212.981231  
## iter 160 value 212.962166  
## iter 170 value 212.940802  
## iter 180 value 212.934928  
## iter 190 value 212.930157  
## iter 200 value 212.919703  
## final value 212.919703   
## stopped after 200 iterations  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 541.475055   
## final value 503.129533   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 527.704652   
## final value 503.133766   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 527.274520   
## final value 503.139528   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 558.985661   
## final value 503.174629   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 512.903189   
## final value 503.116553   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 512.720161   
## final value 503.137417   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 536.907260   
## final value 503.130025   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 528.165242   
## final value 503.129702   
## converged  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 572.791702   
## final value 503.161107   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 608.073357   
## final value 503.188035   
## converged  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 626.881765   
## final value 503.204764   
## converged  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 536.323252   
## final value 503.150666   
## converged  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 526.612257   
## final value 503.125696   
## converged  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 522.492198   
## final value 503.125606   
## converged  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 597.652533   
## final value 503.181430   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 483.221756   
## iter 10 value 318.938264  
## iter 20 value 267.235260  
## iter 30 value 241.260490  
## iter 40 value 224.745588  
## iter 50 value 217.678820  
## iter 60 value 215.559392  
## iter 70 value 212.423185  
## iter 80 value 210.380831  
## iter 90 value 209.744851  
## iter 100 value 209.468580  
## iter 110 value 209.433383  
## iter 120 value 209.425343  
## iter 130 value 209.410743  
## iter 140 value 209.362270  
## iter 150 value 209.347108  
## iter 160 value 209.335426  
## final value 209.335349   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 514.778642   
## final value 503.135166   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 471.892473   
## iter 10 value 267.116809  
## iter 20 value 240.334582  
## iter 30 value 235.815498  
## iter 40 value 234.053523  
## iter 50 value 231.171125  
## iter 60 value 229.747479  
## iter 70 value 229.393427  
## iter 80 value 229.368438  
## iter 90 value 229.360462  
## iter 100 value 229.351682  
## iter 110 value 229.339035  
## iter 120 value 229.317662  
## iter 130 value 229.300291  
## iter 140 value 229.283330  
## iter 150 value 229.271415  
## iter 160 value 229.266507  
## iter 170 value 229.266117  
## iter 180 value 229.264721  
## iter 190 value 229.259934  
## iter 200 value 229.255862  
## final value 229.255862   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 539.886940   
## final value 503.146854   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 566.094912   
## final value 503.149539   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 596.949996   
## final value 503.175977   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 541.637962   
## final value 503.150677   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 512.089547   
## final value 503.121908   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 452.624392   
## iter 10 value 352.816544  
## iter 20 value 307.721350  
## iter 30 value 237.104563  
## iter 40 value 231.725241  
## iter 50 value 230.277755  
## iter 60 value 223.973164  
## iter 70 value 223.651146  
## iter 80 value 223.421352  
## iter 90 value 223.306200  
## iter 100 value 223.266480  
## iter 110 value 223.254806  
## iter 120 value 223.250809  
## iter 130 value 223.243351  
## iter 140 value 223.232835  
## iter 150 value 223.217740  
## iter 160 value 223.202531  
## iter 170 value 223.192553  
## iter 180 value 223.181593  
## iter 190 value 223.166485  
## iter 200 value 223.163448  
## final value 223.163448   
## stopped after 200 iterations  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 564.315667   
## final value 503.179782   
## converged  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 461.576801   
## iter 10 value 306.296922  
## iter 20 value 252.382284  
## iter 30 value 238.792707  
## iter 40 value 231.141032  
## iter 50 value 228.073183  
## iter 60 value 225.552245  
## iter 70 value 224.192487  
## iter 80 value 223.301043  
## iter 90 value 223.252246  
## iter 100 value 223.221366  
## iter 110 value 223.085608  
## iter 120 value 222.701921  
## iter 130 value 221.962115  
## iter 140 value 221.881919  
## iter 150 value 221.749857  
## iter 160 value 221.529956  
## iter 170 value 220.675859  
## iter 180 value 220.158528  
## iter 190 value 220.056603  
## iter 200 value 219.928847  
## final value 219.928847   
## stopped after 200 iterations  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 504.111941   
## iter 10 value 502.896754  
## iter 20 value 487.343374  
## iter 30 value 435.070538  
## iter 40 value 428.841878  
## iter 50 value 423.601183  
## iter 60 value 349.500245  
## iter 70 value 348.467779  
## iter 80 value 348.152999  
## iter 90 value 342.009754  
## iter 100 value 341.656175  
## iter 110 value 341.316166  
## iter 120 value 279.894834  
## iter 130 value 276.926225  
## iter 140 value 276.325206  
## iter 150 value 276.250688  
## iter 160 value 275.731703  
## iter 170 value 275.617390  
## iter 180 value 275.206747  
## iter 190 value 274.898224  
## iter 200 value 274.846407  
## final value 274.846407   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 557.554346   
## final value 503.187962   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 516.370072   
## final value 503.131331   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 519.528952   
## final value 503.127247   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 644.321449   
## final value 503.216828   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 526.629326   
## final value 503.120625   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 563.414423   
## final value 503.149903   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 457.494720   
## iter 10 value 365.546624  
## iter 20 value 277.628586  
## iter 30 value 249.844755  
## iter 40 value 240.216522  
## iter 50 value 238.410457  
## iter 60 value 236.147726  
## iter 70 value 231.436389  
## iter 80 value 228.947048  
## iter 90 value 228.723179  
## iter 100 value 228.651526  
## iter 110 value 228.586562  
## iter 120 value 228.528712  
## iter 130 value 228.269036  
## iter 140 value 228.084361  
## iter 150 value 228.056524  
## iter 160 value 228.056094  
## iter 170 value 228.054990  
## iter 180 value 228.054556  
## iter 190 value 228.053485  
## iter 200 value 228.040473  
## final value 228.040473   
## stopped after 200 iterations  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 538.222851   
## final value 503.146195   
## converged  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 489.513716   
## iter 10 value 322.508202  
## iter 20 value 245.620008  
## iter 30 value 239.741105  
## iter 40 value 237.751563  
## iter 50 value 236.406915  
## iter 60 value 234.205640  
## iter 70 value 233.782962  
## iter 80 value 233.351637  
## iter 90 value 232.934587  
## iter 100 value 232.843221  
## iter 110 value 232.796880  
## iter 120 value 232.727607  
## iter 130 value 232.549914  
## iter 140 value 232.261730  
## iter 150 value 232.121264  
## iter 160 value 232.006945  
## iter 170 value 231.994120  
## iter 180 value 231.963356  
## iter 190 value 231.941530  
## iter 200 value 231.873671  
## final value 231.873671   
## stopped after 200 iterations  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 551.665783   
## final value 503.136894   
## converged  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 546.181288   
## final value 503.135985   
## converged  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 537.214791   
## final value 503.156578   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 544.728598   
## final value 503.161831   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 435.595988   
## iter 10 value 318.698333  
## iter 20 value 235.845313  
## iter 30 value 225.055402  
## iter 40 value 221.744175  
## iter 50 value 216.091063  
## iter 60 value 212.668369  
## iter 70 value 212.507466  
## iter 80 value 212.454561  
## iter 90 value 212.440734  
## iter 100 value 212.428365  
## iter 110 value 212.414339  
## iter 120 value 212.380608  
## iter 130 value 212.240158  
## iter 140 value 211.908119  
## iter 150 value 211.543904  
## iter 160 value 211.519006  
## iter 170 value 211.517737  
## iter 180 value 211.512808  
## iter 190 value 211.509008  
## iter 200 value 211.507076  
## final value 211.507076   
## stopped after 200 iterations  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 504.702274   
## final value 503.003731   
## converged  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 509.058232   
## final value 503.115053   
## converged  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 505.235266   
## iter 10 value 442.654191  
## iter 20 value 433.212257  
## iter 30 value 416.790383  
## iter 40 value 396.830348  
## iter 50 value 394.941829  
## iter 60 value 391.919058  
## iter 70 value 389.771468  
## iter 80 value 389.667300  
## iter 90 value 389.629086  
## iter 100 value 389.272903  
## iter 110 value 389.188472  
## iter 120 value 389.180987  
## iter 130 value 389.177154  
## iter 140 value 389.174618  
## iter 150 value 389.171895  
## iter 160 value 389.166364  
## iter 170 value 389.159286  
## iter 180 value 389.125004  
## iter 190 value 389.124162  
## iter 200 value 389.123992  
## final value 389.123992   
## stopped after 200 iterations  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 472.349269   
## iter 10 value 379.248635  
## iter 20 value 263.448272  
## iter 30 value 242.404534  
## iter 40 value 239.704433  
## iter 50 value 236.036838  
## iter 60 value 232.650211  
## iter 70 value 231.022566  
## iter 80 value 230.257228  
## iter 90 value 229.737336  
## iter 100 value 229.597962  
## iter 110 value 229.577216  
## iter 120 value 229.523767  
## iter 130 value 229.465336  
## iter 140 value 229.361874  
## iter 150 value 228.989356  
## iter 160 value 228.670908  
## iter 170 value 228.565327  
## iter 180 value 228.553292  
## iter 190 value 228.436836  
## iter 200 value 228.357461  
## final value 228.357461   
## stopped after 200 iterations  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 552.227431   
## final value 503.176897   
## converged  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 450.877975   
## iter 10 value 291.460768  
## iter 20 value 247.283749  
## iter 30 value 224.115075  
## iter 40 value 217.721689  
## iter 50 value 216.340713  
## iter 60 value 212.266311  
## iter 70 value 208.381889  
## iter 80 value 207.559636  
## iter 90 value 207.216718  
## iter 100 value 207.156713  
## iter 110 value 207.121728  
## iter 120 value 206.896648  
## iter 130 value 206.576927  
## iter 140 value 206.487742  
## iter 150 value 206.443679  
## iter 160 value 206.361221  
## iter 170 value 206.344042  
## iter 180 value 206.334490  
## iter 190 value 206.323359  
## iter 200 value 206.315218  
## final value 206.315218   
## stopped after 200 iterations  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 525.083597   
## final value 503.130376   
## converged  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 510.921664   
## final value 503.122918   
## converged  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 604.254057   
## final value 503.225546   
## converged  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 473.369839   
## iter 10 value 331.685027  
## iter 20 value 238.417552  
## iter 30 value 230.072730  
## iter 40 value 226.976576  
## iter 50 value 226.224525  
## iter 60 value 225.834602  
## iter 70 value 225.518386  
## iter 80 value 224.357310  
## iter 90 value 223.156158  
## iter 100 value 222.855342  
## iter 110 value 219.843233  
## iter 120 value 219.426554  
## iter 130 value 219.398311  
## iter 140 value 219.392362  
## iter 150 value 219.390244  
## iter 160 value 219.389300  
## iter 170 value 219.388115  
## iter 180 value 219.385377  
## iter 190 value 219.375700  
## iter 200 value 219.358098  
## final value 219.358098   
## stopped after 200 iterations  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 556.559373   
## final value 503.157788   
## converged  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 443.865850   
## iter 10 value 280.458226  
## iter 20 value 226.682943  
## iter 30 value 220.245520  
## iter 40 value 217.022770  
## iter 50 value 215.162727  
## iter 60 value 214.222797  
## iter 70 value 213.478580  
## iter 80 value 212.540764  
## iter 90 value 212.325562  
## iter 100 value 212.306015  
## iter 110 value 212.289261  
## iter 120 value 212.196478  
## iter 130 value 211.763886  
## iter 140 value 211.434913  
## iter 150 value 211.304565  
## iter 160 value 211.289172  
## iter 170 value 211.282435  
## iter 180 value 211.273723  
## final value 211.272837   
## converged  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 535.894080   
## final value 503.138891   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 616.665861   
## final value 503.188449   
## converged  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 506.726133   
## final value 503.118147   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 509.046738   
## final value 503.120589   
## converged  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 496.194083   
## iter 10 value 329.188325  
## iter 20 value 235.399668  
## iter 30 value 225.260745  
## iter 40 value 223.400812  
## iter 50 value 217.720934  
## iter 60 value 215.637215  
## iter 70 value 215.063758  
## iter 80 value 214.324068  
## iter 90 value 213.880000  
## iter 100 value 213.864720  
## iter 110 value 213.858562  
## iter 120 value 213.849966  
## iter 130 value 213.835020  
## iter 140 value 213.811664  
## iter 150 value 213.671443  
## iter 160 value 213.671142  
## iter 170 value 213.644620  
## iter 180 value 213.639738  
## final value 213.639694   
## converged  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 515.868432   
## final value 503.119431   
## converged  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 499.090917   
## iter 10 value 312.580387  
## iter 20 value 244.535298  
## iter 30 value 237.941705  
## iter 40 value 236.491646  
## iter 50 value 235.604508  
## iter 60 value 234.551862  
## iter 70 value 233.502222  
## iter 80 value 233.381173  
## iter 90 value 233.281637  
## iter 100 value 233.201504  
## iter 110 value 233.095221  
## iter 120 value 233.016658  
## iter 130 value 232.951547  
## iter 140 value 232.934250  
## iter 150 value 232.908859  
## iter 160 value 232.829867  
## iter 170 value 232.802350  
## iter 180 value 232.802204  
## iter 190 value 232.801862  
## iter 200 value 232.801619  
## final value 232.801619   
## stopped after 200 iterations  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 539.100464   
## final value 503.152335   
## converged  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 569.706943   
## final value 503.165332   
## converged  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 486.245652   
## iter 10 value 298.842970  
## iter 20 value 230.130531  
## iter 30 value 220.249070  
## iter 40 value 218.147524  
## iter 50 value 209.590653  
## iter 60 value 207.200208  
## iter 70 value 207.099689  
## iter 80 value 206.996651  
## iter 90 value 206.920404  
## iter 100 value 206.773646  
## iter 110 value 206.744386  
## iter 120 value 206.665203  
## iter 130 value 206.584767  
## iter 140 value 206.241600  
## iter 150 value 206.215063  
## iter 160 value 206.192544  
## iter 170 value 206.187185  
## iter 180 value 206.146158  
## iter 190 value 206.093920  
## iter 200 value 206.069029  
## final value 206.069029   
## stopped after 200 iterations  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 498.286143   
## iter 10 value 331.950183  
## iter 20 value 317.147403  
## iter 30 value 307.556694  
## iter 40 value 294.173533  
## iter 50 value 276.561419  
## iter 60 value 264.815448  
## iter 70 value 260.147179  
## iter 80 value 258.334441  
## iter 90 value 257.971198  
## iter 100 value 256.552074  
## iter 110 value 252.834593  
## iter 120 value 250.530566  
## iter 130 value 248.355395  
## iter 140 value 248.013845  
## iter 150 value 247.598138  
## iter 160 value 246.732788  
## iter 170 value 246.569869  
## iter 180 value 246.482974  
## iter 190 value 246.077194  
## iter 200 value 245.933648  
## final value 245.933648   
## stopped after 200 iterations  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 425.861667   
## iter 10 value 276.416786  
## iter 20 value 233.361159  
## iter 30 value 228.640584  
## iter 40 value 227.083394  
## iter 50 value 226.377842  
## iter 60 value 225.964719  
## iter 70 value 225.285872  
## iter 80 value 224.882835  
## iter 90 value 224.874524  
## iter 100 value 224.868664  
## iter 110 value 224.862954  
## iter 120 value 224.857231  
## iter 130 value 224.856589  
## iter 140 value 224.855877  
## final value 224.855331   
## converged  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 523.863727   
## final value 503.143160   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 566.960347   
## final value 503.143881   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 468.823706   
## iter 10 value 332.428215  
## iter 20 value 275.828440  
## iter 30 value 228.603380  
## iter 40 value 221.871527  
## iter 50 value 220.281298  
## iter 60 value 216.207521  
## iter 70 value 215.744783  
## iter 80 value 215.693615  
## iter 90 value 215.676965  
## iter 100 value 215.574684  
## iter 110 value 215.426596  
## iter 120 value 215.318296  
## iter 130 value 215.303734  
## iter 140 value 215.292370  
## iter 150 value 215.225547  
## iter 160 value 215.219127  
## iter 170 value 215.217810  
## iter 180 value 215.217524  
## iter 190 value 215.215225  
## iter 200 value 215.210058  
## final value 215.210058   
## stopped after 200 iterations  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 514.295848   
## final value 503.111944   
## converged  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 442.702541   
## iter 10 value 339.460918  
## iter 20 value 287.644206  
## iter 30 value 225.798471  
## iter 40 value 217.975367  
## iter 50 value 216.524255  
## iter 60 value 214.479312  
## iter 70 value 212.483838  
## iter 80 value 211.605246  
## iter 90 value 211.444560  
## iter 100 value 211.413888  
## iter 110 value 211.410000  
## iter 120 value 211.397169  
## iter 130 value 211.367103  
## iter 140 value 211.362717  
## iter 150 value 211.358767  
## iter 160 value 211.357991  
## iter 170 value 211.355096  
## iter 180 value 211.331380  
## iter 190 value 211.326491  
## iter 200 value 211.325450  
## final value 211.325450   
## stopped after 200 iterations  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 621.034215   
## final value 503.192241   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 465.826027   
## iter 10 value 298.942963  
## iter 20 value 240.801455  
## iter 30 value 227.790565  
## iter 40 value 225.027375  
## iter 50 value 222.076061  
## iter 60 value 221.372453  
## iter 70 value 220.982268  
## iter 80 value 220.032617  
## iter 90 value 219.819981  
## iter 100 value 219.773348  
## iter 110 value 219.672089  
## iter 120 value 219.654121  
## iter 130 value 219.635314  
## iter 140 value 219.579581  
## iter 150 value 219.512149  
## iter 160 value 219.479369  
## iter 170 value 219.440531  
## iter 180 value 219.438022  
## iter 190 value 219.424323  
## iter 200 value 219.413586  
## final value 219.413586   
## stopped after 200 iterations  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 623.020031   
## final value 503.222509   
## converged  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 452.602359   
## iter 10 value 345.528317  
## iter 20 value 249.131041  
## iter 30 value 236.431043  
## iter 40 value 229.593725  
## iter 50 value 228.761074  
## iter 60 value 226.434803  
## iter 70 value 225.594526  
## iter 80 value 224.668971  
## iter 90 value 224.412193  
## iter 100 value 224.330349  
## iter 110 value 224.203749  
## iter 120 value 223.992212  
## iter 130 value 223.454313  
## iter 140 value 223.168576  
## iter 150 value 223.131492  
## iter 160 value 223.009975  
## iter 170 value 222.699927  
## iter 180 value 222.663578  
## iter 190 value 222.532619  
## iter 200 value 222.531194  
## final value 222.531194   
## stopped after 200 iterations  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 544.064139   
## iter 10 value 503.148395  
## iter 20 value 503.148323  
## iter 30 value 503.148250  
## iter 40 value 503.148176  
## iter 50 value 503.148099  
## iter 60 value 503.148020  
## iter 70 value 503.147940  
## iter 80 value 503.147857  
## iter 90 value 503.147772  
## iter 100 value 503.147684  
## iter 110 value 503.147593  
## iter 120 value 503.147500  
## iter 130 value 503.147403  
## iter 140 value 503.147303  
## iter 150 value 503.147200  
## iter 160 value 503.147092  
## iter 170 value 503.146980  
## iter 180 value 503.146863  
## iter 190 value 503.146742  
## iter 200 value 503.146614  
## final value 503.146614   
## stopped after 200 iterations  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 462.422113   
## iter 10 value 301.953706  
## iter 20 value 232.332105  
## iter 30 value 220.849447  
## iter 40 value 218.008053  
## iter 50 value 213.329579  
## iter 60 value 211.346002  
## iter 70 value 211.150219  
## iter 80 value 211.117099  
## iter 90 value 211.106963  
## iter 100 value 211.080078  
## iter 110 value 211.050519  
## iter 120 value 211.014290  
## iter 130 value 210.976782  
## iter 140 value 210.943382  
## iter 150 value 210.912995  
## iter 160 value 210.899244  
## iter 170 value 210.890006  
## iter 180 value 210.844241  
## iter 190 value 210.823502  
## iter 200 value 210.810688  
## final value 210.810688   
## stopped after 200 iterations  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 495.051087   
## iter 10 value 344.060564  
## iter 20 value 307.687028  
## iter 30 value 243.250105  
## iter 40 value 232.206790  
## iter 50 value 224.868606  
## iter 60 value 222.740047  
## iter 70 value 220.011170  
## iter 80 value 215.242611  
## iter 90 value 213.681793  
## iter 100 value 213.380145  
## iter 110 value 213.298025  
## iter 120 value 212.744146  
## iter 130 value 212.536729  
## iter 140 value 212.477592  
## iter 150 value 212.461212  
## iter 160 value 212.431467  
## iter 170 value 212.385220  
## iter 180 value 212.294599  
## iter 190 value 212.165767  
## iter 200 value 212.127026  
## final value 212.127026   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 529.757191   
## final value 503.125212   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 560.432585   
## final value 503.160241   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 466.125593   
## iter 10 value 321.147214  
## iter 20 value 247.275462  
## iter 30 value 235.995097  
## iter 40 value 229.990641  
## iter 50 value 225.971968  
## iter 60 value 222.989048  
## iter 70 value 221.821128  
## iter 80 value 221.583301  
## iter 90 value 221.561767  
## iter 100 value 221.474070  
## iter 110 value 221.384787  
## iter 120 value 221.305034  
## iter 130 value 221.271591  
## iter 140 value 221.246690  
## iter 150 value 221.229927  
## iter 160 value 221.219965  
## iter 170 value 221.213828  
## iter 180 value 221.209413  
## iter 190 value 221.203076  
## iter 200 value 220.997115  
## final value 220.997115   
## stopped after 200 iterations  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 536.180171   
## final value 503.141788   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 574.968112   
## final value 503.164769   
## converged  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 597.098637   
## final value 503.204054   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 580.817130   
## final value 503.198414   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 491.058419   
## iter 10 value 344.919575  
## iter 20 value 319.780122  
## iter 30 value 262.243294  
## iter 40 value 247.632968  
## iter 50 value 241.856122  
## iter 60 value 239.312041  
## iter 70 value 238.127075  
## iter 80 value 236.583542  
## iter 90 value 236.298722  
## iter 100 value 235.707326  
## iter 110 value 235.053634  
## iter 120 value 234.881942  
## iter 130 value 234.850150  
## iter 140 value 234.830286  
## iter 150 value 234.762865  
## iter 160 value 234.753514  
## iter 170 value 234.745454  
## iter 180 value 234.739118  
## iter 190 value 234.726174  
## iter 200 value 234.648732  
## final value 234.648732   
## stopped after 200 iterations  
## Fitting Repeat 1   
##   
## # weights: 40  
## initial value 516.826448   
## final value 503.136700   
## converged  
## Fitting Repeat 2   
##   
## # weights: 40  
## initial value 455.668729   
## iter 10 value 328.256865  
## iter 20 value 278.862076  
## iter 30 value 247.266197  
## iter 40 value 235.423241  
## iter 50 value 227.112801  
## iter 60 value 224.147948  
## iter 70 value 219.575990  
## iter 80 value 216.058701  
## iter 90 value 214.069297  
## iter 100 value 212.219915  
## iter 110 value 211.029707  
## iter 120 value 210.323027  
## iter 130 value 209.954982  
## iter 140 value 209.789030  
## iter 150 value 209.780257  
## iter 160 value 209.757615  
## iter 170 value 209.585107  
## iter 180 value 209.125952  
## iter 190 value 209.111114  
## iter 200 value 209.096738  
## final value 209.096738   
## stopped after 200 iterations  
## Fitting Repeat 3   
##   
## # weights: 40  
## initial value 495.845831   
## iter 10 value 418.193882  
## iter 20 value 412.592553  
## iter 30 value 410.061797  
## iter 40 value 407.507795  
## iter 50 value 407.224806  
## iter 60 value 407.186165  
## iter 70 value 405.107551  
## iter 80 value 356.023850  
## iter 90 value 355.570026  
## iter 100 value 355.044230  
## iter 110 value 354.773743  
## iter 120 value 354.606319  
## iter 130 value 354.101500  
## iter 140 value 353.420232  
## iter 150 value 353.305133  
## iter 160 value 353.206943  
## iter 170 value 353.065717  
## iter 180 value 353.030532  
## iter 190 value 353.015453  
## iter 200 value 353.001285  
## final value 353.001285   
## stopped after 200 iterations  
## Fitting Repeat 4   
##   
## # weights: 40  
## initial value 632.631659   
## final value 503.199959   
## converged  
## Fitting Repeat 5   
##   
## # weights: 40  
## initial value 515.179386   
## final value 503.123880   
## converged  
## Fitting Repeat 6   
##   
## # weights: 40  
## initial value 580.116948   
## final value 503.179297   
## converged  
## Fitting Repeat 7   
##   
## # weights: 40  
## initial value 494.335186   
## iter 10 value 351.397995  
## iter 20 value 321.290451  
## iter 30 value 242.288456  
## iter 40 value 225.468955  
## iter 50 value 224.096359  
## iter 60 value 223.632879  
## iter 70 value 221.893058  
## iter 80 value 218.831612  
## iter 90 value 218.409691  
## iter 100 value 218.257738  
## iter 110 value 218.204876  
## iter 120 value 218.184145  
## iter 130 value 218.168148  
## iter 140 value 218.138089  
## iter 150 value 218.110468  
## iter 160 value 218.027658  
## iter 170 value 217.902664  
## iter 180 value 217.867881  
## iter 190 value 217.846871  
## iter 200 value 217.827908  
## final value 217.827908   
## stopped after 200 iterations  
## Fitting Repeat 8   
##   
## # weights: 40  
## initial value 467.002685   
## iter 10 value 300.708354  
## iter 20 value 254.544009  
## iter 30 value 239.927325  
## iter 40 value 232.855092  
## iter 50 value 230.851199  
## iter 60 value 224.531495  
## iter 70 value 223.887159  
## iter 80 value 223.846152  
## iter 90 value 223.839130  
## iter 100 value 223.808380  
## iter 110 value 223.770678  
## iter 120 value 223.746088  
## iter 130 value 223.736198  
## iter 140 value 223.720664  
## iter 150 value 223.715092  
## iter 160 value 223.706660  
## iter 170 value 223.704180  
## iter 180 value 223.700257  
## iter 190 value 223.696089  
## iter 200 value 223.692252  
## final value 223.692252   
## stopped after 200 iterations  
## Fitting Repeat 9   
##   
## # weights: 40  
## initial value 498.017189   
## iter 10 value 258.577914  
## iter 20 value 231.233759  
## iter 30 value 227.853043  
## iter 40 value 226.776448  
## iter 50 value 225.765634  
## iter 60 value 224.682821  
## iter 70 value 224.114371  
## iter 80 value 224.060126  
## iter 90 value 224.057691  
## iter 100 value 224.057198  
## iter 110 value 224.050430  
## iter 120 value 223.951159  
## iter 130 value 223.812413  
## iter 140 value 223.768847  
## iter 150 value 223.750319  
## iter 160 value 223.545112  
## iter 170 value 223.507181  
## iter 180 value 223.363027  
## iter 190 value 223.313322  
## iter 200 value 223.249736  
## final value 223.249736   
## stopped after 200 iterations  
## Fitting Repeat 10   
##   
## # weights: 40  
## initial value 482.712512   
## iter 10 value 330.073816  
## iter 20 value 316.441576  
## iter 30 value 310.756175  
## iter 40 value 306.233565  
## iter 50 value 240.271705  
## iter 60 value 234.900222  
## iter 70 value 232.580231  
## iter 80 value 230.792767  
## iter 90 value 230.374902  
## iter 100 value 230.192969  
## iter 110 value 230.088630  
## iter 120 value 230.020706  
## iter 130 value 229.239053  
## iter 140 value 228.179983  
## iter 150 value 227.600884  
## iter 160 value 226.691831  
## iter 170 value 226.018148  
## iter 180 value 225.649912  
## iter 190 value 225.523291  
## iter 200 value 225.347328  
## final value 225.347328   
## stopped after 200 iterations  
## Fitting Repeat 11   
##   
## # weights: 40  
## initial value 450.123679   
## iter 10 value 265.912485  
## iter 20 value 235.912792  
## iter 30 value 217.812611  
## iter 40 value 215.249737  
## iter 50 value 213.699623  
## iter 60 value 212.797873  
## iter 70 value 212.245501  
## iter 80 value 211.573878  
## iter 90 value 211.379086  
## iter 100 value 211.249992  
## iter 110 value 210.980051  
## iter 120 value 210.602541  
## iter 130 value 209.869171  
## iter 140 value 209.405989  
## iter 150 value 209.254725  
## iter 160 value 209.106889  
## iter 170 value 208.901090  
## iter 180 value 208.867755  
## iter 190 value 208.822846  
## iter 200 value 208.802117  
## final value 208.802117   
## stopped after 200 iterations  
## Fitting Repeat 12   
##   
## # weights: 40  
## initial value 578.697195   
## final value 503.167627   
## converged  
## Fitting Repeat 13   
##   
## # weights: 40  
## initial value 481.462811   
## iter 10 value 372.848822  
## iter 20 value 249.831380  
## iter 30 value 222.162646  
## iter 40 value 218.959760  
## iter 50 value 216.363589  
## iter 60 value 212.309110  
## iter 70 value 212.139802  
## iter 80 value 212.119620  
## iter 90 value 212.112505  
## iter 100 value 212.052439  
## iter 110 value 211.946031  
## iter 120 value 211.897764  
## iter 130 value 211.832900  
## iter 140 value 211.766931  
## iter 150 value 211.760896  
## iter 160 value 211.759084  
## iter 170 value 211.757294  
## iter 180 value 211.756810  
## iter 190 value 211.754571  
## iter 200 value 211.752345  
## final value 211.752345   
## stopped after 200 iterations  
## Fitting Repeat 14   
##   
## # weights: 40  
## initial value 449.710179   
## iter 10 value 321.869919  
## iter 20 value 275.517306  
## iter 30 value 244.114689  
## iter 40 value 240.033283  
## iter 50 value 236.372158  
## iter 60 value 232.994388  
## iter 70 value 229.061343  
## iter 80 value 228.525768  
## iter 90 value 228.032194  
## iter 100 value 227.928171  
## iter 110 value 227.904957  
## iter 120 value 227.865827  
## iter 130 value 227.809423  
## iter 140 value 227.736896  
## iter 150 value 227.698105  
## iter 160 value 227.651815  
## iter 170 value 227.565982  
## iter 180 value 227.552445  
## iter 190 value 227.550125  
## iter 200 value 227.547751  
## final value 227.547751   
## stopped after 200 iterations  
## Fitting Repeat 15   
##   
## # weights: 40  
## initial value 506.939387   
## final value 503.112451   
## converged  
## Fitting Repeat 16   
##   
## # weights: 40  
## initial value 590.907129   
## final value 503.191508   
## converged  
## Fitting Repeat 17   
##   
## # weights: 40  
## initial value 457.508698   
## iter 10 value 319.525560  
## iter 20 value 276.303500  
## iter 30 value 246.281773  
## iter 40 value 239.190231  
## iter 50 value 237.905644  
## iter 60 value 235.052014  
## iter 70 value 231.504441  
## iter 80 value 231.364720  
## iter 90 value 231.236069  
## iter 100 value 231.042645  
## iter 110 value 230.891383  
## iter 120 value 230.876552  
## iter 130 value 230.845930  
## iter 140 value 230.817412  
## iter 150 value 230.786453  
## iter 160 value 230.740461  
## iter 170 value 230.688633  
## iter 180 value 230.640475  
## iter 190 value 230.628280  
## iter 200 value 230.624198  
## final value 230.624198   
## stopped after 200 iterations  
## Fitting Repeat 18   
##   
## # weights: 40  
## initial value 489.936770   
## iter 10 value 351.361443  
## iter 20 value 267.021941  
## iter 30 value 244.678123  
## iter 40 value 237.967011  
## iter 50 value 235.320807  
## iter 60 value 234.626358  
## iter 70 value 232.626159  
## iter 80 value 230.447679  
## iter 90 value 229.128232  
## iter 100 value 229.069249  
## iter 110 value 229.058653  
## iter 120 value 229.042296  
## iter 130 value 229.023027  
## iter 140 value 229.012435  
## iter 150 value 229.003379  
## iter 160 value 228.986215  
## iter 170 value 228.960043  
## iter 180 value 228.939514  
## iter 190 value 228.933338  
## iter 200 value 228.927344  
## final value 228.927344   
## stopped after 200 iterations  
## Fitting Repeat 19   
##   
## # weights: 40  
## initial value 591.483838   
## final value 503.188274   
## converged  
## Fitting Repeat 20   
##   
## # weights: 40  
## initial value 495.576016   
## iter 10 value 321.264451  
## iter 20 value 250.715056  
## iter 30 value 227.618607  
## iter 40 value 224.079879  
## iter 50 value 221.887141  
## iter 60 value 220.686943  
## iter 70 value 220.047705  
## iter 80 value 219.480922  
## iter 90 value 219.302702  
## iter 100 value 219.263069  
## iter 110 value 219.168941  
## iter 120 value 219.120537  
## iter 130 value 219.118530  
## iter 140 value 219.115045  
## iter 150 value 219.099532  
## iter 160 value 219.098053  
## iter 170 value 219.032425  
## iter 180 value 219.019480  
## iter 190 value 219.017892  
## iter 200 value 219.013379  
## final value 219.013379   
## stopped after 200 iterations  
## Fitting Repeat 21   
##   
## # weights: 40  
## initial value 550.817159   
## final value 503.143356   
## converged  
## Fitting Repeat 22   
##   
## # weights: 40  
## initial value 474.974307   
## iter 10 value 325.297729  
## iter 20 value 266.242317  
## iter 30 value 249.055158  
## iter 40 value 243.216156  
## iter 50 value 240.084991  
## iter 60 value 237.298477  
## iter 70 value 235.978947  
## iter 80 value 235.766451  
## iter 90 value 235.592316  
## iter 100 value 235.513349  
## iter 110 value 235.357213  
## iter 120 value 235.054625  
## iter 130 value 234.844638  
## iter 140 value 234.714802  
## iter 150 value 234.695670  
## iter 160 value 234.687659  
## iter 170 value 234.679950  
## iter 180 value 234.674815  
## iter 190 value 234.671160  
## iter 200 value 234.648145  
## final value 234.648145   
## stopped after 200 iterations  
## Fitting Repeat 23   
##   
## # weights: 40  
## initial value 498.868508   
## iter 10 value 327.666283  
## iter 20 value 239.619670  
## iter 30 value 227.400804  
## iter 40 value 224.134492  
## iter 50 value 221.886288  
## iter 60 value 220.417129  
## iter 70 value 219.513328  
## iter 80 value 219.320270  
## iter 90 value 219.310773  
## iter 100 value 219.308949  
## iter 110 value 219.300326  
## iter 120 value 219.071223  
## iter 130 value 218.949627  
## iter 140 value 218.816950  
## iter 150 value 218.809214  
## iter 160 value 218.779310  
## iter 170 value 218.773832  
## iter 180 value 218.753375  
## iter 190 value 218.702948  
## iter 200 value 218.701592  
## final value 218.701592   
## stopped after 200 iterations  
## Fitting Repeat 24   
##   
## # weights: 40  
## initial value 501.125646   
## iter 10 value 351.504551  
## iter 20 value 298.862511  
## iter 30 value 256.936909  
## iter 40 value 240.958696  
## iter 50 value 231.005709  
## iter 60 value 227.817924  
## iter 70 value 225.235271  
## iter 80 value 223.137241  
## iter 90 value 221.258676  
## iter 100 value 220.988011  
## iter 110 value 220.752168  
## iter 120 value 220.540301  
## iter 130 value 220.381357  
## iter 140 value 220.133297  
## iter 150 value 219.987418  
## iter 160 value 219.926700  
## iter 170 value 218.429840  
## iter 180 value 218.357924  
## iter 190 value 218.320095  
## iter 200 value 218.307159  
## final value 218.307159   
## stopped after 200 iterations  
## Fitting Repeat 25   
##   
## # weights: 40  
## initial value 541.296612   
## final value 503.141004   
## converged  
## Fitting Repeat 26   
##   
## # weights: 40  
## initial value 434.404399   
## iter 10 value 272.748852  
## iter 20 value 245.404615  
## iter 30 value 232.345336  
## iter 40 value 228.034397  
## iter 50 value 224.949695  
## iter 60 value 223.850064  
## iter 70 value 222.681641  
## iter 80 value 222.208826  
## iter 90 value 222.148825  
## iter 100 value 222.147147  
## iter 110 value 222.105026  
## iter 120 value 221.965355  
## iter 130 value 221.785528  
## iter 140 value 221.639582  
## iter 150 value 221.462982  
## iter 160 value 221.266574  
## iter 170 value 221.196681  
## iter 180 value 221.193417  
## iter 190 value 221.191751  
## iter 200 value 221.158518  
## final value 221.158518   
## stopped after 200 iterations  
## Fitting Repeat 27   
##   
## # weights: 40  
## initial value 502.793866   
## iter 10 value 373.794108  
## iter 20 value 302.564549  
## iter 30 value 243.542051  
## iter 40 value 233.791263  
## iter 50 value 231.533070  
## iter 60 value 228.464612  
## iter 70 value 225.809764  
## iter 80 value 225.073203  
## iter 90 value 224.880474  
## iter 100 value 224.818822  
## iter 110 value 224.780766  
## iter 120 value 224.757905  
## iter 130 value 224.718137  
## iter 140 value 224.702739  
## iter 150 value 224.692688  
## iter 160 value 224.670973  
## iter 170 value 224.664676  
## iter 180 value 224.629084  
## iter 190 value 224.534704  
## iter 200 value 224.525330  
## final value 224.525330   
## stopped after 200 iterations  
## Fitting Repeat 28   
##   
## # weights: 40  
## initial value 457.737413   
## iter 10 value 339.222918  
## iter 20 value 311.731795  
## iter 30 value 304.414352  
## iter 40 value 236.149919  
## iter 50 value 228.899821  
## iter 60 value 226.319502  
## iter 70 value 222.222381  
## iter 80 value 219.448220  
## iter 90 value 219.194913  
## iter 100 value 219.147160  
## iter 110 value 219.123587  
## iter 120 value 219.050432  
## iter 130 value 218.965416  
## iter 140 value 218.926604  
## iter 150 value 218.893243  
## iter 160 value 218.790955  
## iter 170 value 218.741164  
## iter 180 value 218.710993  
## iter 190 value 218.698516  
## iter 200 value 218.687991  
## final value 218.687991   
## stopped after 200 iterations  
## Fitting Repeat 29   
##   
## # weights: 40  
## initial value 560.292262   
## final value 503.166659   
## converged  
## Fitting Repeat 30   
##   
## # weights: 40  
## initial value 467.851591   
## iter 10 value 288.562971  
## iter 20 value 235.945770  
## iter 30 value 224.063598  
## iter 40 value 219.111134  
## iter 50 value 216.095261  
## iter 60 value 213.660987  
## iter 70 value 213.550442  
## iter 80 value 213.509559  
## iter 90 value 213.390079  
## iter 100 value 213.342309  
## iter 110 value 213.326169  
## iter 120 value 213.316175  
## iter 130 value 213.294165  
## iter 140 value 213.274426  
## iter 150 value 213.241380  
## iter 160 value 213.230488  
## iter 170 value 213.226185  
## iter 180 value 213.224195  
## iter 190 value 213.216263  
## iter 200 value 213.211297  
## final value 213.211297   
## stopped after 200 iterations  
## Fitting Repeat 31   
##   
## # weights: 40  
## initial value 526.480355   
## final value 503.137219   
## converged  
## Fitting Repeat 32   
##   
## # weights: 40  
## initial value 553.594893   
## final value 503.155447   
## converged  
## Fitting Repeat 33   
##   
## # weights: 40  
## initial value 514.185242   
## final value 503.125738   
## converged  
## Fitting Repeat 34   
##   
## # weights: 40  
## initial value 427.906531   
## iter 10 value 309.094571  
## iter 20 value 246.457185  
## iter 30 value 240.827039  
## iter 40 value 235.438207  
## iter 50 value 231.842926  
## iter 60 value 230.007594  
## iter 70 value 229.877132  
## iter 80 value 229.604448  
## iter 90 value 229.584569  
## iter 100 value 229.568559  
## iter 110 value 229.558946  
## iter 120 value 229.547248  
## iter 130 value 229.445169  
## iter 140 value 229.396655  
## iter 150 value 229.361721  
## iter 160 value 229.337581  
## iter 170 value 229.327974  
## iter 180 value 229.192540  
## iter 190 value 229.058212  
## iter 200 value 229.026905  
## final value 229.026905   
## stopped after 200 iterations  
## Fitting Repeat 35   
##   
## # weights: 40  
## initial value 527.086177   
## final value 503.157051   
## converged  
## Fitting Repeat 36   
##   
## # weights: 40  
## initial value 507.358744   
## final value 503.115486   
## converged  
## Fitting Repeat 37   
##   
## # weights: 40  
## initial value 552.997044   
## final value 503.153302   
## converged  
## Fitting Repeat 38   
##   
## # weights: 40  
## initial value 505.209906   
## iter 10 value 420.317377  
## iter 20 value 413.143380  
## iter 30 value 409.938198  
## iter 40 value 409.233882  
## iter 50 value 408.418986  
## iter 60 value 407.941255  
## iter 70 value 407.825052  
## iter 80 value 407.766429  
## iter 90 value 407.732610  
## iter 100 value 407.712115  
## iter 110 value 407.649971  
## iter 120 value 407.550548  
## iter 130 value 407.535744  
## iter 140 value 407.514983  
## iter 150 value 407.486225  
## iter 160 value 407.440055  
## iter 170 value 407.413390  
## iter 180 value 407.393036  
## iter 190 value 407.212937  
## iter 200 value 407.035777  
## final value 407.035777   
## stopped after 200 iterations  
## Fitting Repeat 39   
##   
## # weights: 40  
## initial value 547.964781   
## final value 503.158888   
## converged  
## Fitting Repeat 40   
##   
## # weights: 40  
## initial value 511.573507   
## final value 503.131392   
## converged  
## Fitting Repeat 41   
##   
## # weights: 40  
## initial value 477.946355   
## iter 10 value 327.746008  
## iter 20 value 249.261046  
## iter 30 value 223.920620  
## iter 40 value 220.395120  
## iter 50 value 218.848456  
## iter 60 value 215.540474  
## iter 70 value 211.039386  
## iter 80 value 210.213602  
## iter 90 value 209.705038  
## iter 100 value 209.650578  
## iter 110 value 209.612162  
## iter 120 value 209.589836  
## iter 130 value 209.579305  
## iter 140 value 209.570058  
## iter 150 value 209.567145  
## iter 160 value 209.495402  
## iter 170 value 209.493628  
## iter 180 value 209.437178  
## iter 190 value 209.430690  
## iter 200 value 209.430116  
## final value 209.430116   
## stopped after 200 iterations  
## Fitting Repeat 42   
##   
## # weights: 40  
## initial value 488.159429   
## iter 10 value 343.311197  
## iter 20 value 252.146907  
## iter 30 value 236.117834  
## iter 40 value 233.273081  
## iter 50 value 230.936241  
## iter 60 value 227.435693  
## iter 70 value 223.789785  
## iter 80 value 223.377620  
## iter 90 value 223.283999  
## iter 100 value 223.201007  
## iter 110 value 222.896561  
## iter 120 value 222.615414  
## iter 130 value 222.423508  
## iter 140 value 222.318523  
## iter 150 value 222.309744  
## iter 160 value 222.291896  
## iter 170 value 222.242327  
## iter 180 value 222.213138  
## iter 190 value 222.172678  
## iter 200 value 222.137723  
## final value 222.137723   
## stopped after 200 iterations  
## Fitting Repeat 43   
##   
## # weights: 40  
## initial value 550.750851   
## final value 503.164992   
## converged  
## Fitting Repeat 44   
##   
## # weights: 40  
## initial value 512.326842   
## final value 503.112191   
## converged  
## Fitting Repeat 45   
##   
## # weights: 40  
## initial value 572.619039   
## final value 503.155061   
## converged  
## Fitting Repeat 46   
##   
## # weights: 40  
## initial value 514.691561   
## final value 503.111582   
## converged  
## Fitting Repeat 47   
##   
## # weights: 40  
## initial value 502.093284   
## iter 10 value 310.696593  
## iter 20 value 235.146939  
## iter 30 value 229.229490  
## iter 40 value 227.095340  
## iter 50 value 225.799952  
## iter 60 value 224.624200  
## iter 70 value 224.091974  
## iter 80 value 223.289338  
## iter 90 value 223.123963  
## iter 100 value 223.041514  
## iter 110 value 222.752903  
## iter 120 value 222.551138  
## iter 130 value 222.428884  
## iter 140 value 222.353058  
## iter 150 value 222.226068  
## iter 160 value 221.915043  
## iter 170 value 221.859828  
## iter 180 value 221.857277  
## iter 190 value 221.847899  
## iter 200 value 221.844501  
## final value 221.844501   
## stopped after 200 iterations  
## Fitting Repeat 48   
##   
## # weights: 40  
## initial value 530.612244   
## final value 503.123817   
## converged  
## Fitting Repeat 49   
##   
## # weights: 40  
## initial value 634.574493   
## final value 503.208243   
## converged  
## Fitting Repeat 50   
##   
## # weights: 40  
## initial value 482.063057   
## iter 10 value 343.064167  
## iter 20 value 266.892070  
## iter 30 value 223.082354  
## iter 40 value 216.964215  
## iter 50 value 215.679304  
## iter 60 value 214.382414  
## iter 70 value 212.811080  
## iter 80 value 212.451929  
## iter 90 value 212.156277  
## iter 100 value 211.895198  
## iter 110 value 210.746948  
## iter 120 value 210.335032  
## iter 130 value 210.309189  
## iter 140 value 210.301797  
## iter 150 value 210.290473  
## iter 160 value 210.285225  
## iter 170 value 210.266953  
## iter 180 value 210.241523  
## iter 190 value 210.229586  
## iter 200 value 210.221994  
## final value 210.221994   
## stopped after 200 iterations

sink()

# turn output on again

sink()  
summary(Accuracies)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.6869 0.7071 0.7172 0.7343 0.7652 0.8182

acclen = length(na.omit(Accuracies))  
plot(density(Accuracies), main = paste('Average Neural Network Model accuracies:',acclen, 'runs') )

