

Question 1

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Question 1(b):

8.658268242282489

11.90578654944483

[ 114.30512878 -187.717837 31.24228605 14.25033792 -23.28707996  
-96.93067091 8.90033976]

Question 1(c):

3.1039124261521724

86.30061472403378

[ 4.19153584e+06 -7.78801464e+06 -6.11451027e+04 4.26697405e+06  
5.19610925e+04 -1.18585190e+06 -1.64583884e+04 1.33819262e+05  
1.61411567e+03 -2.77362460e+03 3.75946147e+04 -6.23166544e+06  
-6.45948278e+04 2.47048667e+06 3.29936785e+04 -4.57000351e+05  
-6.21109440e+03 2.67547716e+04 2.20973769e+02]

Question 1(d):

4.8439909882418275e-06

72483972988.872

[-1.38331651e+12 2.60581627e+12 1.29992445e+11 -1.60418605e+12  
-1.29056900e+11 5.87237052e+11 5.68200418e+10 -1.17584647e+11  
-1.17103011e+10 1.07781062e+10 9.18163649e+08 -2.89236780e+08  
-1.20229482e+07 -7.71478666e+10 2.17514775e+12 1.46066741e+11  
-1.03966363e+12 -9.38253667e+10 2.85627775e+11 2.85533724e+10  
-3.99481328e+10 -3.79583317e+09 2.16843405e+09 1.48185026e+08  
-1.91393360e+07]

Question 1(f):

13.741160276011058

12.090256909518223

[ 66.22002474 -107.19437051 15.21342666 -9.79486139 -52.43545557]

Question 2

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Question 2(b):

0.7766666666666666

0.7766666666666666

0.0

Question 2(c):

0.8227777777777778

0.8227777777777778

0.0

Question 2(d):

0.79

0.79

0.0

Question 3

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Question 3(b):

0.6388888888888888

Question 3(c):

0.7794444444444445

Question 3(d):

0.7844444444444445

Question 3(e):

0.5605555555555556

0.6083333333333333

0.5555555555555556

0.5555555555555556

0.56

0.745

0.7866666666666666

0.7894444444444444

0.785

Question3(f):

0.5555555555555556

0.2794444444444444

0.5555555555555556

0.5555555555555556

0.5555555555555556

0.6538888888888889

0.7044444444444444

0.7705555555555555

0.7677777777777778

Question 3(h):

0.7883333333333333

0.7883333333333333

0.0

Question 3(g) :

0.48838091004638917

0.48838091004638917

0.0

**For any outputs in Question 4,5  
I don't know**