HW3

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GitHub: kenlpetro/Math300_Petro/Python

1   Question 1

After defining the matrices A and b, numpy.linalg.solve(A,b) gave the solution:

$$\begin{bmatrix} -2 \\ 3.5 \end{bmatrix}$$

2   Question 2

I was unable to get matplotlib to display plots, causing me to lose time researching solutions instead of getting the functions right.

3   Question 3

For this question as well I could not get the plots to display.

4   Question 4

I had trouble getting this function to run because of "'float' objects".

5   Question 5

Using sympy.Symbol('x') and function.diff, I was able to get an answer close to what I found calculating the derivative online, but there seems to be a little difference due to the section with the cosine.