By submitting this assignment, all team members agree to the following:
“Aggies do not lie, cheat, or steal, or tolerate those who do”
“I have not given or received any unauthorized aid on this assignment”
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Name: Katherine Stevens, Michael Tyrrell, Yida Zou, Maxine Woods
Section: 462
Assignment: Lab12a_Act1.pdf
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Functions:

toEquation(x)
    #takes input of user coefficients and converts them into a polynomial function

derivative1()
    #To calculate the first derivative of the function

derivative2()
    #Calculate the second derivative of the original function.

makePoints()
    #Generate points along the curve to plot

plot1()
    #plotting the original polynomial function

plot2()
    #plotting the first derivative of the function

plot3()
    #plotting the second derivative of the function

localMax()
    #finds local maximum point

localMin()
    #finds local minimum point

Top-down:

1. Plot curves
    a. Plot original curve
        i. Take input of coefficients for toEquation()
        ii. makePoints()
        iii. localMax()
        iv. localMin()

    v. Graph curve plot1()
b. Plot 1st derivative
    i. derivative1()
    ii. makePoints()
    iii. localMax()
    iv. localMin()
    v. Graph curve plot2()
c. Plot 2nd derivative
    i. derivative2()
    ii. makePoints()
    iii. localMax()
    iv. localMin()
    v. Graph curve plot3()