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Lab 4 Plotting Math Function and Writing Math Function

lab4 % Running to see the graphs for equation poly\_equi

y = @(x, a,b,c) a\*x.^2 + b\*x + c; % To set the equation and the variables in % equation poly

y(1,1,-4,4)% Testing values in equation poly

ans =

1 % Value I get with those four variables

x = 0:1:10 % Set x values from 0 to 10 going 1 at a time

x =

0 1 2 3 4 5 6 7 8 9 10 % 0 to 10

y(x,1,-4,4) % Testing values in equation poly with the x of 0 to 10

ans =

4 1 0 1 4 9 16 25 36 49 64 % Values

% for the y using the x values from 0 to 10

lab4 % Running to see the graph for equation poly

y(2,1,-4,4) % Putting in values for the equation poly

ans =

0 % Value for y when using those values

lab4 % Running to see the value of the min\_max

min\_max =

0 % Value of the min\_max

lab4 % Running to get the values for the x and y of the min/max

2 % Value for x

0 % Value for y

lab4 % Running to see the output values

x value where the min/max occurs is 1 % Gives output for x value

value of the min/max is 3 % Gives output for the min/max

clear % Clears the workspace

clc % Clears the command window

lab4 % Running last time to verify working

x value where the min/max occurs is 1 % Gives output for x value

value of the min/max is 3 % Gives output for y value

diary off % Turns diary off

Graphs for the equation poly\_equi



Graph for the equation poly

