
Day 2 assignment Finding Maximum / Minimum Values

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Nolan Anderson ENG 101 Due 1/14/19

Line equation and boundary

```
x = linspace(-5,4,50);

y = 2.*x.^2-8.*x-17 %Evaluates the function with respect to the array
                    % ^ periods allow for things to be multiplied (element by element)

                    % y = is all of the values from the array x plugged into the
                    % function
                    % "f(x)= 2x2 -8x-17"

y =
```

Columns 1 through 7

73.0000	67.9246	62.9842	58.1787	53.5081	48.9725	44.5718
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Columns 8 through 14

40.3061	36.1753	32.1795	28.3186	24.5927	21.0017	17.5456
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Columns 15 through 21

14.2245	11.0383	7.9871	5.0708	2.2895	-0.3569	-2.8684
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Columns 22 through 28

-5.2449	-7.4865	-9.5931	-11.5648	-13.4015	-15.1033	-16.6701
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Columns 29 through 35

-18.1020	-19.3990	-20.5610	-21.5881	-22.4802	-23.2374	-23.8596
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Columns 36 through 42

-24.3469	-24.6993	-24.9167	-24.9992	-24.9467	-24.7593	-24.4369
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Columns 43 through 49

-23.9796 -23.3873 -22.6601 -21.7980 -20.8009 -19.6689 -18.4019

Column 50

-17.0000

Outputs for the calculated line

```
max_y = max(y) % Outputs the maximum y value for the function y  
min_y = min(y) % Outputs minimum y value for the function y
```

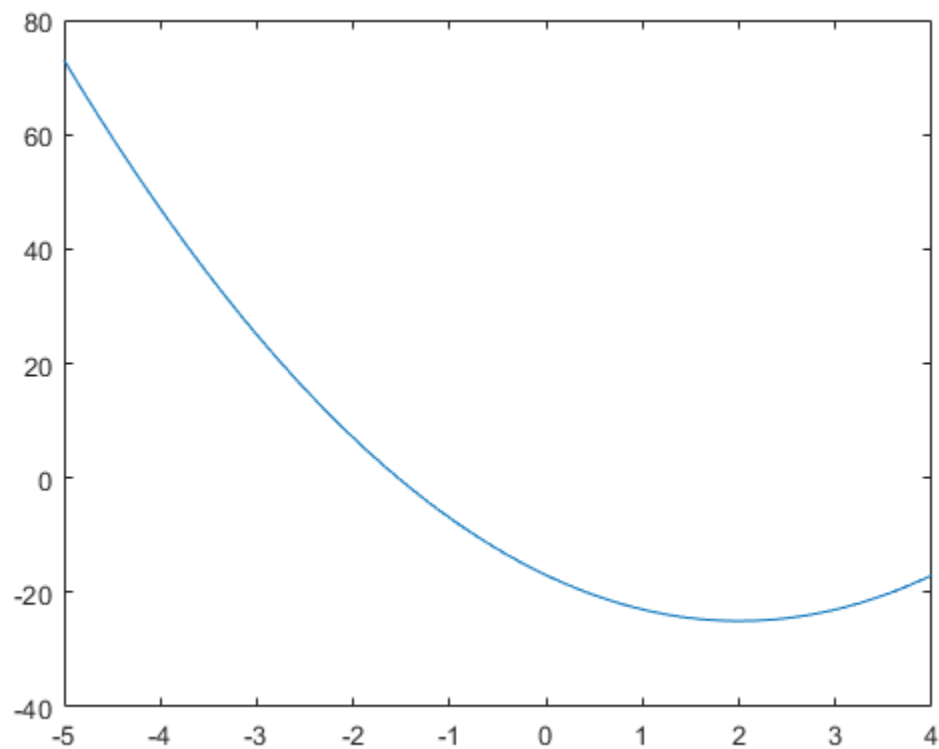
```
plot(x,y) %Plots the function with respect to the limits of the  
variable x (-5->4)
```

```
max_y =
```

73

```
min_y =
```

-24.9992



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