



## Discussion Forums

## Week 6

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Assignment: Regularized Linear  
Regression and Bias/Variance

## ← Week 6



## Test case for learningCurve()



Tom Mosher Mentor Week 6 · 2 years ago

Here is a test case for the learningCurve() function:

Enter these commands in your console:

```
1 X = [ones(5,1) reshape(-5:4,5,2)];  
2 y = [-2:2]';  
3 Xval=[X;X]/10;  
4 yval=[y;y]/10;  
5 [et ev] = learningCurve(X,y,Xval,yval,1)
```

You should get these results:



```
1 et =
2
3     0.000000
4     0.031250
5     0.013333
6     0.005165
7     0.002268
8
9 ev =
10
11    3.0000e-002
12    5.3125e-003
13    6.0000e-004
14    9.2975e-005
15    2.2676e-005
```

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Here are the theta values for each size of training set:



```
1 % m = 1
2 theta =
3 -2.00000
4 0.00000
5 0.00000
6
7 % m = 2
8 theta =
9 -0.50000
10 0.25000
11 0.25000
12
13 % m = 3
14 theta =
15 0.20000
16 0.40000
17 0.40000
18
19 % m = 4
20 theta =
21 0.40909
22 0.45455
23 0.45455
24
25 % m = 5
26 theta =
27 0.47619
28 0.47619
29 0.47619
```

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