

Assignment 3

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Editor - C:\Users\Ivani\Desktop\580\hw3.m
lec5.m  hw3.m  L6.m  hw4.m  linfit3D.m  hw5.m  inference2D.m  linfit2D.m  +
1  x=[2,2,3,4,4,5,6,7,8,9,5]';
2  y=[10,11,12,13,14,15,20,18,22,25,20]';
3  [b0,b1,rsq,StdErrEst,StdRes] = linfit(x,y);
4  disp(["b0:", b0,"b1:", b1,"s:", StdErrEst,"r^2:", rsq])
5  fit=b0+b1*x;
6  plot(x,fit)
7  hold on
8  plot(x,y,'*')
9  hold off
10
11  disp(["Residual:", StdRes(11)])
12
13  for k=1:11
14      if abs(StdRes(k)) > 2
15          disp(["Outlier:", k, x(k), y(k)])
16      end
17  end
18  %Yes it is outlier

Command Window
New to MATLAB? See resources for Getting Started.

>> hw3
    "b0:"      "6.3636"    "b1:"      "2"      "s:"      "1.7174"    "r^2:"      "0.89055"

    "Residual:"      "-2.2207"

    "Outlier:"      "11"      "5"      "20"
```

