

ENGR 112 Spring 2016

Pre-Activity Matlab 8

Objective: Use polyfit and other methods to do a linear regression

You should work on this task **individually**, but you may discuss results with your teammates.

1. Given the data $x=[1, 2, 5, 7]$ and $y=[2.1, 2.9, 6.1, 8.3]$, use polyfit to find the slope and intercept of the best-fit line (linear regression line).
2. Calculate the slope and intercept using the equations given on slide 9 of the pre-activity reading.
3. Calculate the MSE for the linear regression.