

ENGR 112 Spring 2016
Pre-Activity Matlab 7

Objective: Try out `normpdf`, `normcdf`, and `norminv`

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

For the first three problems you can either put them all into a single script and submit the script, or simply run them from the command line with diary turned on and submit the diary file.

1. Using `normpdf`, find the normal pdf value for $x = 1$, if $\mu = 2$ and $\sigma = 3$.
2. Using `normcdf`, find the cumulative probability for $x = 1.5$, if $\mu = 1$ and $\sigma = 4$.
3. Using `norminv`, find the coefficient (multiplier) for a 90% confidence interval (it's not 1.96).
4. (A little more challenging) Modify the code given on slide 7 of the reading so give the z-table for values of z from 1.6 to 5.