

# Assignment 3 - Solutions

## 0.1 Function Finding

1. Returns the sin in radians of x.
2. Returns the sin in degrees of x.
3. Solves a linear system with coefficients x and solutions y.
4. Plots x in the x-axis and y in the y-axis.
5. Plots x in the x-axis and y in the y-axis. The third argument defines the design of the line being plotted.
6. Creates a subplot of row x and column y with the current plot being edited as z. It is the equivalent of figure but for many separate plots in one big plot. Often used for comparison of other plots.
7. flips a Matrix in terms of symmetry. transpose interchanges rows for columns and columns for rows.
8. Sums all the elements in a matrix x.
9. Creates a new figure for plotting.

## 0.2 Command Finding

1. clc clears the command window, clear clears the workspace, close all closes all figures.
2. pi the numeric value of pi.
3. help reveals the functionality of a function or command and input for such functions.
4. Runs the program currently up or in use.
5. tic starts a timer, toc stops the timer. Often utilized to time the execution of a program.