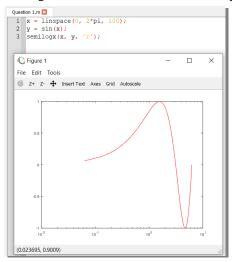
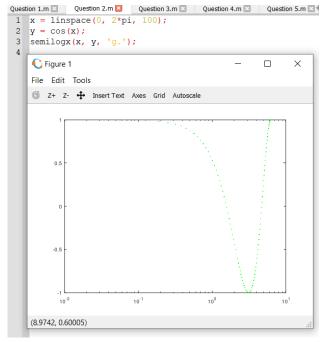
Lab sheet 3-SCS2211

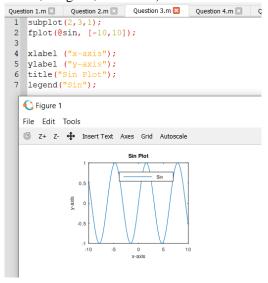
1. Plot a $\sin(x)$ wave over one period which x is in 0 to 2 π range with enough samples to get smooth lines. Using the same graph try to plot sin wave in logarithmic scale for the x-axis using red solid lines.



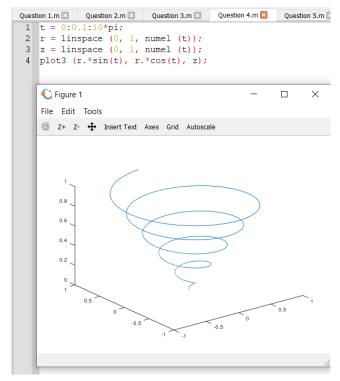
2. Plot a Cos(x) wave over one period which x is in 0 to 2 π range with enough samples to get smooth lines. Using the same graph try to plot Cos wave in logarithmic scale for both x-axis and y axis using green dotted lines.



3. Makes a figure with 2 rows and three columns of axes, and activates the first axis for plotting and plot sin curve on it. (Each axis should have labels, a legend, and a title).



4. Make the Helix shape plot using the knowledge of 3D plotting.



5. A= [0 2 4 6 6 4 2 0] is vector. Transform vector A in to a matrix called A_MAT and display a scaled version of the matrix A_MAT.

```
A_MAT = reshape([0,2,4,6,6,4,2,0], 2,4);
display(A_MAT);

>> A_MAT =

0  4  6  2
2  6  4  0
```

6. Draw a surface of the size 12 points in X axis and 8 points in Y axis but random Z values. Color the surface with 'rainbow' colormap.

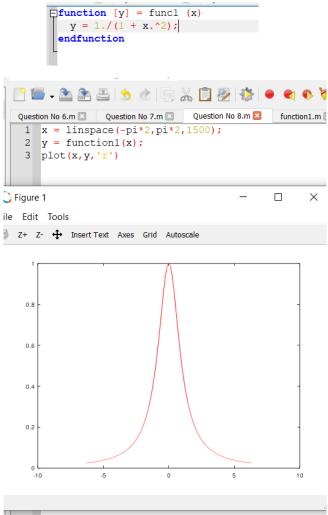
Commented [D T1]:

7. Draw a flat surface (i.e. same value in Z axis) of the size 9 points in X and 10 points in Y. Mark X, Y and Z axes with a single letter using the 'labell' functions.

Question No 6.m Question No 7.m Question No 8.m Question No 8.

Commented [D T2]: Speling of label

8. Plot the function y = 1 (1 + x 2) on 2 dimensions where x is a 50 element vector from -2v to 2v. Color the plot with red while using dashes to draw the line.



Commented [D T3]: Use word formula editor to include a formula. This is unclear.