Basic MATLAB guide

- 1. Access a pc system with matlab.
- 2. Launch it and change working directory.
- 3. To create a new Matlab program, click the 'File' menu and choose 'New' and 'M-file'.
- 4. To open an existing program, select 'open' in the 'File' menu.
- 5. Save your M-file as filename.m (for example, test.m)
- 6. To run your 'M-file' program, press F5 key while in the program window.
- 7. To plot one curve, use plot(x,y); To plot two curves, use $plot(x, y1, -\cdot, x, y2, -\cdot)$.
- 8. To plot two curves in the same figure with different scales, use plotyy(x,y1,x,y2).
- 9. To generate two subplots in one figure,

```
use subplot(2,1,1), plot(x,y1), subplot(2,1,2), plot(x,y2)
```

- 10. Use **xlabel(**'your label text') to label the x-axis, similar for y-axis.
- 11. 'Help' function is provided for the MATLAB command. For example, type "help plot" in the command window to get various plot commands.

An example program to generate an x-y plot: