Matlab

1. Basic operation
2. Make a your folder
3. Open matlab
4. Change the working directory to your folder
5. Open a new script file
6. Make a matlab script command
7. Save your script file : choose file name
8. Exit the script file
9. Open the script file in your directory
10. Now code for elementary operations

\*\* In the script window there are several bars.

\*\* ‘Run Section’ : clicking means the selected section in the script file will be executed.

\*\* help command

>> help inv

🡪 inv Matrix inverse.

inv(X) is the inverse of the square matrix X.

A warning message is printed if X is badly scaled or nearly singular.

P.2 Today’s matlab example

1. Write a program to calculate
2. Run the program to get AB, and
3. Calculate the determinant of AB,A, and B(hint: det(A))

Check : det(AB) = det(A)det(B) = det(BA)

1. Solving linear equation

clear all; clc;

A = [2 4 2 ; 4 9 -3; -2 -3 7];

% A = [ 2 3 4;5 6 7; 8 9 1];

inv(A)

b = [2;8;10];

% b = [1;2; 3];

inv(A)\*b

x = inv(A)\*b;

% verification

A\*x -b

\*\* deletion

>> clear all % delete every memories, variables and so on

>> clc ; % delete the texts in the command window

>>clf : % delete the graph