Assignment 2 Due date: 18 March 2021 TA: 劉孟鑫 E814 (15:10~16:00)

1. Solve the system with variables x_1, x_2, x_3 :

1	-3	4	7]
0	1	2	2
0	0	1	5

2. Solve the system with variables x_1, x_2, x_3, x_4 :

1	0	8	-5		
0	1	4	-9		
0	0	1	1	2	

3. Solve the system with variables x_1, x_2, x_3, x_4, x_5 :

1	7	-2	0	-8	-3
0	0	1	1	6	5
0	0	0	1	3	9
0	0	0	0	0	$\begin{bmatrix} -3\\5\\9\\0 \end{bmatrix}$

4. Solve the system by Gaussian elimination.

 $x_1 + x_2 + 2x_3 = 8$ -x_1 -2x_2 +3x_3 = 1 $3x_1 -7x_2 +4x_3 = 10$

5. Solve the system by Gaussian elimination.