## Assignment 7

Due date： 21 May 2021
TA：林宏懌 E817（13：10～14：00）
1．Use the adjoint method to find the inverse of $A$ ，where

$$
A=\left[\begin{array}{rrr}
2 & 5 & 5 \\
-1 & -1 & 0 \\
2 & 4 & 3
\end{array}\right]
$$

2．Use the adjoint method to find the inverse of $A$ ，where

$$
A=\left[\begin{array}{rrr}
2 & 0 & 3 \\
0 & 3 & 2 \\
-2 & 0 & -4
\end{array}\right]
$$

3．Solve the following system using Cramer＇s rule．

$$
\begin{aligned}
4 x+5 y & =2 \\
11 x+y+2 z & =3 \\
x+5 y+2 z & =1
\end{aligned}
$$

4．Solve the following system using Cramer＇s rule．

$$
\begin{aligned}
x-4 y+z & =6 \\
4 x-y+2 z & =-1 \\
2 x+2 y-3 z & =-20
\end{aligned}
$$

