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.

$$4x +5y = 2$$

$$11x +y +2z = 3$$

$$x +5y +2z = 1$$

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

$$x-4y+z = 6$$

$$4x-y+2z = -1$$

$$2x+2y-3z = -20$$

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