Unit 1 Test Said Naghiyur 201 ADB100

3. Problem set $A = \begin{bmatrix} -4 & -4 & -5 \\ -4 & 9 & -5 \\ 12 & -4 & -4 \end{bmatrix}$ Ans (-10 -4 -5) Ans (-4 6 -5) 12 -4 -7

2)
$$\begin{cases} x + yy + z - 1 \\ -x - 2y + 2z = 3 \end{cases}$$
 $1 = \begin{vmatrix} 1 & y & 1 \\ -1 & -2 & 2 \end{vmatrix} = i8 \neq 0$
 $2x - 2 = y$ $2 = \begin{vmatrix} 1 & y & 1 \\ 2 & 0 & -1 \end{vmatrix}$ $3 = \begin{vmatrix} 1 & y & 1 \\ 2 & 0 & -1 \end{vmatrix}$

 $X = \frac{\Delta x}{D} = \frac{5}{18} = 3$ $\Delta y = \begin{vmatrix} 1 & 1 & 1 \\ -1 & 3 & 2 & 2 \\ 2 & 4 & -1 \end{vmatrix} = -18$ $y = \frac{\Delta 8}{18} = \frac{-18}{18} = -1$

3)
$$B = \begin{pmatrix} 2 & 3 & -1 \\ 4 & 3 & -2 \end{pmatrix}$$
 $B = \begin{pmatrix} 2 & 1 & -1 \\ 4 & 3 & -2 \end{pmatrix} \begin{pmatrix} 3 & 2 & 1 \\ 4 & 3 & -2 \end{pmatrix} \begin{pmatrix} 4 & 3 \\ 6 & 1 & 4 \end{pmatrix} \begin{pmatrix} 6 & 1 & 4 \\ 6 & 1 & 4 \end{pmatrix} \begin{pmatrix}$

131=8