$$A_1 = \begin{vmatrix} 30 & 4 & 6 & 304 \\ 8 & -2 & 3 & 8 & -2 \end{vmatrix} = -40 = -40 = -48$$

$$A2 = \begin{vmatrix} 1 & 6 & 2 & 1 & 6 \\ -3 & 30 & 6 & -3 & 30 \\ -1 & 8 & 3 & -1 & 8 \end{vmatrix} = P 96 \rightarrow X_1 = \frac{\text{det}(A_1)}{\text{det}(A)} = \frac{96}{44}$$

$$A3 = \begin{vmatrix} 1 & 0 & 4 & 1 & 0 \\ -3 & 4 & 30 & -3 & 4 \\ -1 & -2 & 8 & -1 & -2 \end{vmatrix} = 0.104 - 0.00 \times 3 = \frac{\text{det}(A_3)}{\text{det}(A)} = \frac{104}{44}$$

$$-7 X_3 = \frac{det(A_3)}{det(A)} = 104$$

$$|7-2| A=7-(-6)$$
 $|3| = |3|$ 

$$A = \begin{bmatrix} 4 & 2 & 0 & | & 4 & 2 \\ 1 & 3 & 2 & | & 1 & 3 \end{bmatrix} = P - 68 - P \cdot 9 = -68$$

$$= \begin{bmatrix} 1 & 1 & 2 & | & 1 & 1 \\ 1 & 1 & 2 & | & 1 & 1 \end{bmatrix}$$

$$A_3 = \begin{vmatrix} 4 & 5 & 2 & | & 4 & 5 \\ 11 & 1 & 3 & | & 1 & | & = P & 12 \\ 1 & 5 & | & | & 5 & | & = P & 12 \end{vmatrix}$$

4) 
$$X - 4y + Z = 6$$
  
 $4X - y + 2Z = -1$   
 $2X + 2y - 3Z = -20$   
 $5awab:$ 

$$A_1 = \begin{vmatrix} 6 & -4 & 1 & 6 & -4 \\ -1 & -1 & 2 & -1 & -1 & -1 & -1 & 222 & = PX = 122 \\ -20 & 2 & 3 & -20 & 2 & -51 \end{vmatrix}$$

5) 
$$X_1 - 3X_2 + X_3 = A(1)$$
  
 $2X_1 - X_2 = -2(2)$   
 $4X_1 - 3X_3 = O(3)$   
Jawab  
 $\begin{vmatrix} 1 & -3 \\ 1 & 1 \end{vmatrix} = -3$ 

$$A3 = \begin{vmatrix} 1 - 3 & 4 & | & 1 - 3 \\ 2 - 1 & -2 & | & 2 - 1 \\ 4 & 0 & 0 & | & 4 & 0 \end{vmatrix} = P A0 - P X_3 = \frac{40}{-11}$$