$$\sigma = (1 + 7 + 9)(3 + 5 + 8)$$

$$y_{1} = (-1)^{3} \cdot (-1)^{3} = 1$$

$$(1 \ 2) \ au = (1 \ 2 \ 3).$$

$$=$$
 (12) (12) (23) $=$ (23)

$$A = 17 \cdot \begin{vmatrix} 1 & 2 \\ 1 & 0 \end{vmatrix}$$

$$= |7 - | 0 - 1 - 1 | 0 - 2 | 0$$





















$$B = \begin{bmatrix} x - 1 & x & x \\ x + 1 & x & x - 1 \\ x & x & x + 1 \end{bmatrix}$$

$$\beta = \begin{bmatrix} \times & \times & \times \\ \times & \times & \times \\ \times & \times & \times \end{bmatrix} + \begin{bmatrix} 0 & 0 & 1 \\ 1 & 0 & -1 \\ -1 & 0 & 0 \end{bmatrix}$$

$$= \frac{|X|}{|X|} \times \frac{|X|}{|X|}$$

$$= (-3) \times$$

$$C = \begin{bmatrix} 1 & 2 & 0 & 0 & 0 \\ 3 & 4 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 2 & 2 & 2 \\ 0 & 0 & 3 & 3 & 3 \end{bmatrix}$$

$$det C = det \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} det \begin{bmatrix} 2 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \end{bmatrix}$$

$$= det \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \cdot 0$$

$$D = \begin{bmatrix} 1 & 4 & x \\ -1 & 2 & y \\ 1 & 0 & z \end{bmatrix}$$

$$det D = X \cdot |\frac{1}{10}| - y |\frac{1}{10}| + z |\frac{1}{2}|$$

$$\begin{bmatrix} 1 & 1 & -1 \\ 0 & 2 & 0 \\ 1 & a & -3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & a & -3 \end{bmatrix} \begin{bmatrix} x_3 \end{bmatrix} \begin{bmatrix} 1 \end{bmatrix}$$

$$\begin{bmatrix} \begin{pmatrix} 1 & 1 & -1 \\ 0 & 2 & 0 \\ 1 & \alpha & -3 \end{bmatrix} = 2 \cdot (-3 + 1) = -1$$

(-6) - (-6) - (2a-2)

$$\begin{bmatrix} 1 & a & -3 \end{bmatrix} \begin{bmatrix} x_3 \end{bmatrix} \begin{bmatrix} 1 \end{bmatrix}$$

$$\det \begin{bmatrix} 0 & 2 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & -3 \end{bmatrix} = 2 \cdot (-3 + 1) = -4$$

$$777 - 11$$

$$F = \begin{bmatrix} 2 & -1 & 0 \\ 2 & -1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$

$$F = \begin{pmatrix} 1 & 1 & 1 \\ 1 & -2 & 2 \\ 1 & -1 & 0 \end{pmatrix}$$

$$F = F$$

$$G = egin{bmatrix} 3 & 1 & 3^2 & 3^3 \ 4 & 1 & 4^2 & 4^3 \ 5 & 1 & 5^2 & 5^3 \ 6 & 1 & 6^2 & 6^3 \end{bmatrix}$$

$$dut G = (-1) \frac{1}{1!} (x_3 - x_i)$$

$$| \le i < j \le 4$$

$$| \ge | 3 | 14$$

$$| x_2 = 5|$$

$$| x_3 = 4|$$

$$| x_4 = 3|$$

$$| (-1) (-2) (-3)$$

$$| (-1) (-2)$$

$$| = (-1) | 2^2 3 = -12 | (-1)$$

$$det H = (det H)^3 = 2^3$$