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1)

a) $\begin{bmatrix} a & 0 & -1 & 2 \\ 4 & 1 & 2 & d \\ f & b & e & -1 \\ c & -3 & 0 & 3 \end{bmatrix}$ NIM : 120140018

a = 1 b = 4 c = 0
d = 0 e = 1 f = 8

$\begin{bmatrix} 1 & 0 & -1 & 2 \\ 4 & 1 & 2 & 0 \\ 8 & 4 & 1 & -1 \\ 0 & -3 & 0 & 3 \end{bmatrix}$

b) baris 1 kolom 1

$\begin{bmatrix} 1 & 0 & -1 & 2 \\ 4 & 1 & 2 & 0 \\ 8 & 4 & 1 & -1 \\ 0 & -3 & 0 & 3 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 0 \\ 4 & 1 & -1 \\ -3 & 0 & 3 \end{bmatrix}$ $= (1)(1)(3) - (0)(1)(-3) = 3$

baris 1 kolom 2

$\begin{bmatrix} 4 & 2 & 0 \\ 8 & 1 & -1 \\ 0 & 0 & 3 \end{bmatrix} \rightarrow (4)(1)(3) - (0)(1)(6) = 12$

baris 1 kolom 3

$\begin{bmatrix} 4 & 1 & 0 \\ 8 & 4 & -1 \\ 0 & -3 & 3 \end{bmatrix} \rightarrow (4)(8)(0) - (0)(4)(0) = 0$

baris 1 kolom 4

$\begin{bmatrix} 4 & 1 & 2 \\ 8 & 4 & 1 \\ 0 & -3 & 0 \end{bmatrix} \rightarrow (4)(4)(0) - (2)(4)(0) = 0$

baris 2 kolom 1

$\begin{bmatrix} 0 & -1 & 2 \\ 4 & 1 & -1 \\ -3 & 0 & 3 \end{bmatrix} \rightarrow (0)(1)(3) - (2)(1)(-3) = 0 - -6 = 6$

baris 2 kolom 2

$\begin{bmatrix} 1 & -1 & 2 \\ 8 & 1 & -1 \\ 0 & 0 & 3 \end{bmatrix} \rightarrow (1)(1)(3) - (2)(1)(0) = 3$

baris 2 kolom 3

$\begin{bmatrix} 1 & 0 & 2 \\ 4 & 4 & -1 \\ 0 & -3 & 3 \end{bmatrix} \rightarrow (1)(4)(3) - (2)(4)(6) = 12$

baris 2 kolom 4

$\begin{bmatrix} 1 & 0 & -1 \\ 8 & 4 & 1 \\ 0 & -3 & 0 \end{bmatrix} \rightarrow (1)(4)(6) - (-1)(4)(0) = 24$

ba

c) $C_1 = \begin{bmatrix} 1 & 2 & 0 \\ 4 & 1 & -1 \\ -3 & 0 & 3 \end{bmatrix}$

e) $\begin{bmatrix} -\frac{1}{3} & -\frac{1}{3} & \frac{1}{2} & \frac{1}{3} \\ \frac{4}{5} & \frac{3}{5} & -\frac{2}{5} & -\frac{2}{3} \\ \frac{4}{15} & \frac{13}{15} & -\frac{7}{15} & -\frac{1}{3} \\ \frac{4}{5} & \frac{3}{5} & -\frac{2}{5} & -\frac{1}{3} \end{bmatrix}$