2) 218 
$$X = [a, b, c]$$
  $f_1, f_2$ 

$$(196)$$
  $f_1 = 10, x. [as 19.6]$   
 $f_2 = 10, x. [as 16.6]$ 

(b) 
$$A = \begin{bmatrix} 3 & 2 & 2 \\ 0 & 3 & 1 \\ 0 & -2 & 0 \end{bmatrix}$$
  $A = [PPP-10] P = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 2 & 0 \\ 0 & 0 & 0 & 3 \end{bmatrix}$ 

또 Anel 2행 3열 성분? [4정]

(pb) 
$$\det |\lambda I - A| = |\lambda - 3| - 2| - 2| = (\lambda - 3)(\lambda \times (\lambda - 3) + 2) = 0$$
  
 $0 \quad \lambda - 3| - 1| + 2(0) + 2($ 

$$7 (\lambda -3)(\lambda -2)(\lambda -1) = 0$$

$$A = 3 = 0 \quad 2 \quad -2 \quad | x_1 = 3 \text{ or } 2 \text{ or } 1$$

$$A = -2 \quad | x_1 = 0 \quad | x_2 = 0$$

$$A = -2 \quad | x_2 = 0$$

$$A = -2 \quad | x_3 = 0$$

$$\begin{cases}
0 & 0 & 1 \\
0 & 0 & -1
\end{cases}
\begin{bmatrix}
\chi_1 \\
\chi_2 \\
\chi_3
\end{bmatrix} = 0$$

$$\chi_3 = 0$$

$$\chi_2 = 0$$

$$\chi_1 = E$$

$$A = 2 \text{ Qiah } AI - A = \begin{bmatrix} -1 & -2 & -2 \\ 0 & -1 & -1 \\ 0 & 2 & 2 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} -1 & 0 & 0 \\ 0 & 1 & 1 \\ 0 & 2 & 2 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} -1 & 0 & 0 \\ 0 & 1 & 1 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} -2 & -2 & -2 \\ 0 & -2 & -1 \\ 0 & 2 & 1 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ 0 & 2 & 1 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ 0 & 2 & 1 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ 0 & 2 & 1 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ 0 & 2 & 1 \end{bmatrix} = 0$$

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$$\begin{cases} -2 & 0 & -1 \\ \chi_2 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ \chi_3 \chi(1) + \chi_1 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ \chi_2 \chi(1) + \chi_1 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ \chi_3 \chi(1) + \chi_1 \end{bmatrix} = 0$$

$$\begin{cases} -2 & 0 & -1 \\ \chi_2 \chi(1) + \chi_1 \end{bmatrix} = 0$$

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$$\begin{cases} -2 & 0 & -$$