$$V_{2} = \begin{pmatrix} 1 \\ 5 \end{pmatrix}$$

$$F a \quad 7_{3} = -2 \Rightarrow (A - 2_{3} \mathbf{I}) V_{3} = 0$$

$$\begin{pmatrix} 1 & 7 & -1 \\ 0 & 3 & 0 \\ 0 & 15 & 0 \end{pmatrix} \begin{pmatrix} x_{3} \\ y_{3} \\ z_{3} \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \rightarrow y_{3} = 0$$

$$X_{3} - z_{3} = 0 \Rightarrow x_{3} = z_{3}$$

$$V_{3} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$For \ \lambda_{3} = 2 = 4 \ (A - \lambda_{3} \ 2)V_{3} = 0$$

$$\begin{pmatrix} -16 & 12 \ -20 & 15 \end{pmatrix} \begin{pmatrix} x_{3} \\ y_{3} \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \xrightarrow{-3} & 4x_{2} = 3y_{3}$$

$$V_{2} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$$

$$P = \begin{pmatrix} 4 & 3 \\ 5 & 4 \end{pmatrix} \xrightarrow{-3} P^{-1} = \begin{pmatrix} 4 & -3 \\ -5 & 4 \end{pmatrix} \begin{pmatrix} 4 & 3 \\ 5 & 4 \end{pmatrix}$$

$$P = \begin{pmatrix} 4 & -3 \\ -5 & 4 \end{pmatrix} \begin{pmatrix} -14 & 12 \\ -20 & 12 \end{pmatrix} \begin{pmatrix} 4 & 3 \\ 5 & 4 \end{pmatrix}$$

$$= \begin{pmatrix} 4 & -3 \\ -10 & 5 \end{pmatrix} \begin{pmatrix} 4 & 3 \\ 5 & 4 \end{pmatrix}$$

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

$$= \begin{pmatrix} \lambda_{1} & 0 \\ 0 & \partial_{2} \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 2 \\ 1 & 2 \end{pmatrix}$$

$$B = \begin{pmatrix} 3 & -2 \\ 3 & -2 \end{pmatrix}$$

$$|A| = 1 \qquad |B| = -2$$

$$5, na |A| \neq |A|$$

$$A \vee B \text{ are not similar}$$

$$\begin{pmatrix} 3 & 1 \\ 0 & 3 \end{pmatrix}$$

$$\begin{pmatrix} 3 & 8 \\ 0 & 3 \end{pmatrix}$$

$$|A| = 3$$

$$\begin{pmatrix} 3 - 2 \\ 0 & 3 - 2 \end{pmatrix}$$

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$$\begin{pmatrix} 3 -$$