

$$\det [\lambda I - A] = (\lambda - 1)(\lambda - 4) - (-3)(-2) = 0$$

$$\lambda^2 - 5\lambda + 4 - 6 = 0$$

PERKALKULASI
KARAKTERISTIK

$$\lambda^2 - 5\lambda - 2 = 0 \rightarrow \lambda_1 \text{ \& \& } \lambda_2$$

$$[\lambda I - \hat{A}] = \begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix} - \begin{bmatrix} 5 & 2 \\ 4 & 0 \end{bmatrix} = \begin{bmatrix} \lambda - 5 & -2 \\ -4 & \lambda \end{bmatrix}$$

$$\det [\lambda I - \hat{A}] = \lambda(\lambda - 5) - (-4)(-2) = 0$$

$$\lambda^2 - 5\lambda - 2 = 0 \rightarrow \lambda_1 \text{ \& \& } \lambda_2$$

Karakteristik A = karakteristik $\hat{A}$

Jadi: Model (x, A, B, C, D) SIMILAR dengan

Model $(\hat{x}, \hat{A}, \hat{B}, \hat{C}, \hat{D})$

Rencana
MID 13/11/15

next = solusi pers diff