Persamaan Keadaan

$$\dot{x} = Ax + Bu$$

$u = 0$ (no input) $\rightarrow \dot{x} = Ax$, $x(0) = X_0$

A : $[n \times n]$

$$\begin{bmatrix} \frac{dx_1(t)}{dt} \\ \frac{dx_2(t)}{dt} \\ \vdots \\ \frac{dx_n(t)}{dt} \end{bmatrix} = A \begin{bmatrix} x_1(t) \\ x_2(t) \\ \vdots \\ x_n(t) \end{bmatrix}$$

$\frac{dx(t)}{dt}$: $[n \times n]$: $x(t)$