

Cara II Pers. Diff

$$G(z) = \frac{z}{z^2 - 3z + 3} = \frac{z^{-1}}{1 - 3z^{-1} + 3z^{-2}} = \frac{Y(z)}{X(z)}$$

① dibagi: pangkat tertinggi
② dikali-silang:

$$(1 - 3z^{-1} + 3z^{-2})Y(z) = z^{-1}X(z)$$

$$Y(z) - 3z^{-1}Y(z) + 3z^{-2}Y(z) = z^{-1}X(z)$$

$$Y(z) = z^{-1}X(z) + 3z^{-1}Y(z) - 3z^{-2}Y(z)$$

Inverse Transf. $z \Rightarrow$

Persamaan Difference (Beda, Selisih):

$$y(k) = x(k-1) + 3y(k-1) - 3y(k-2)$$

↑

diambil dari "memory"

← sistem dengan INERTAN