

Contoh

$$G(z) = \frac{0,06321}{z - 0,3679}$$

$$\rightarrow y(k) = \dots ?$$

$$G(z) = \frac{Y(z)}{U(z)} = \frac{0,06321 z^{-1}}{1 - 0,3679 z^{-1}}$$

pembilang dan penyebut dibagi dengan  $z$  pangkat TERTINGGI!

Dikali silang:

$$(1 - 0,3679 z^{-1}) Y(z) = 0,06321 z^{-1} U(z)$$

$$Y(z) - 0,3679 z^{-1} Y(z) = 0,06321 z^{-1} U(z)$$

Inverse Trans.  $z$ :

$$y(k) - 0,3679 y(k-1) = 0,06321 u(k-1)$$

Pers. Difference

$$y(k) = 0,06321 u(k-1) + 0,3679 y(k-1)$$

| k | u(k) | y(k)    |
|---|------|---------|
| 0 | 1    | 0 ✓     |
| 1 | 1    | 0,06321 |
| 2 | 1    | 0,08641 |
| 3 | 1    | 0,09562 |
| 4 | 1    |         |