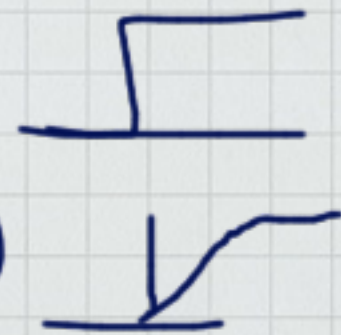


* Sistem² order pertama:

$\Rightarrow G(s) = \frac{1}{s}$, integrator

$\Rightarrow G(s) = \frac{1}{s+a}$, lagging,
 $G(s) = \frac{1}{\tau s + 1}$ (simple lag)



$$\tau = \frac{1}{a}$$

time
constant

$\Rightarrow G(s) = \frac{s+a}{s+b}$, phase compensator

$\tau = "tau"$

$a < b \Rightarrow$ phase-lag

$a > b \Rightarrow$ phase-lead

* Sistem² order kedua:

$\Rightarrow G(s) = \frac{1}{s^2}$, double integrator

$\Rightarrow G(s) = \frac{1}{s(s+a)}$, simple (lag + integrator)