

* CLTF $G_T(s) = \frac{G(s) \cdot H(s)}{1 + G(s) H(s)}$ system kendali
 dengan KOMPENSATOR

$$= \frac{\frac{1}{s} \cdot \frac{s+1}{s+2}}{1 + \frac{1}{s} \cdot \frac{s+1}{s+2}} = \frac{s+1}{s^2 + 2s + s + 1} = \frac{s+1}{s^2 + 3s + 1}$$

memiliki 1 zero $z = -1$

2 pole : $p_{1,2} = \frac{-3 \pm \sqrt{9-4}}{2}$

$$p_1 = -1,5 + 1,18 = -0,382$$

$$p_2 = -1,5 - 1,18 = -2,618$$

$$= -\frac{3}{2} \pm \frac{1}{2}\sqrt{5}$$