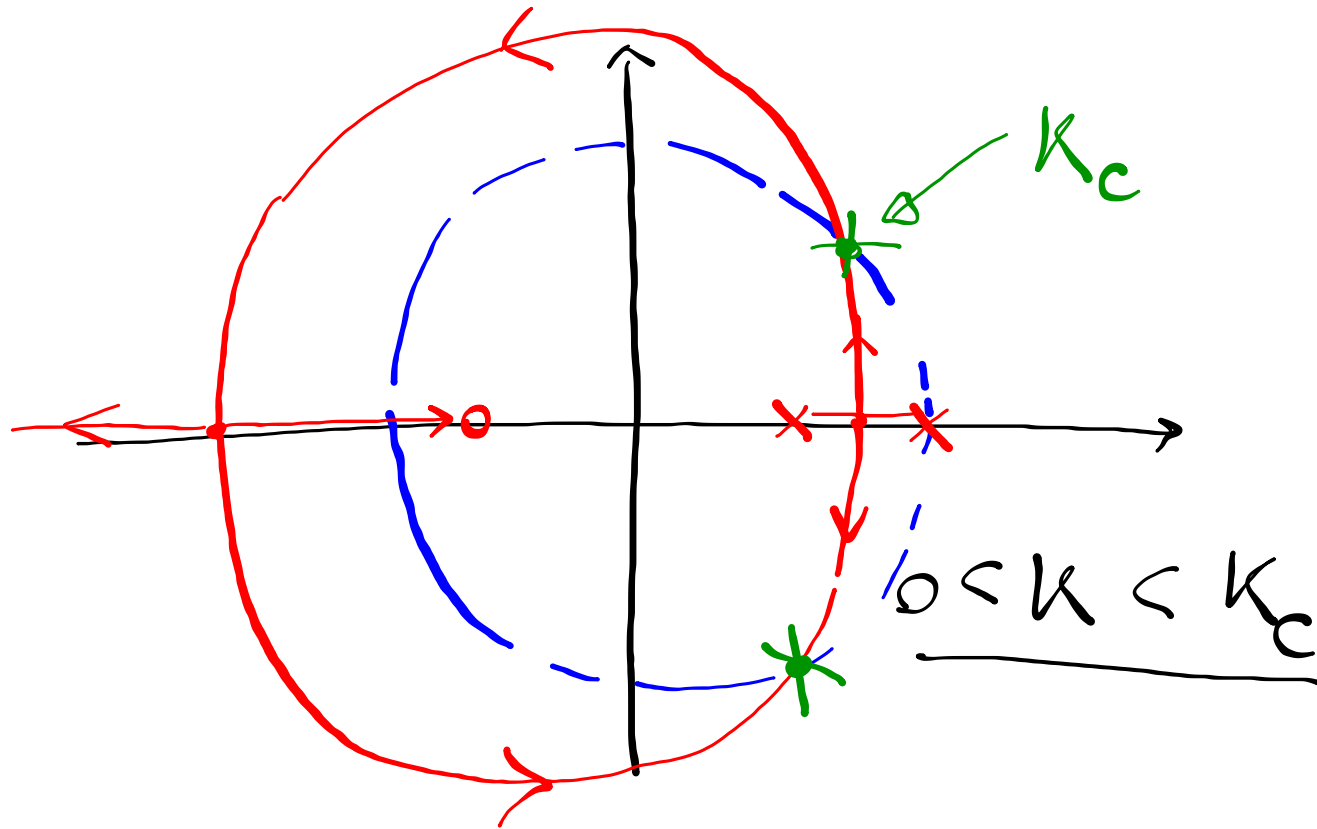
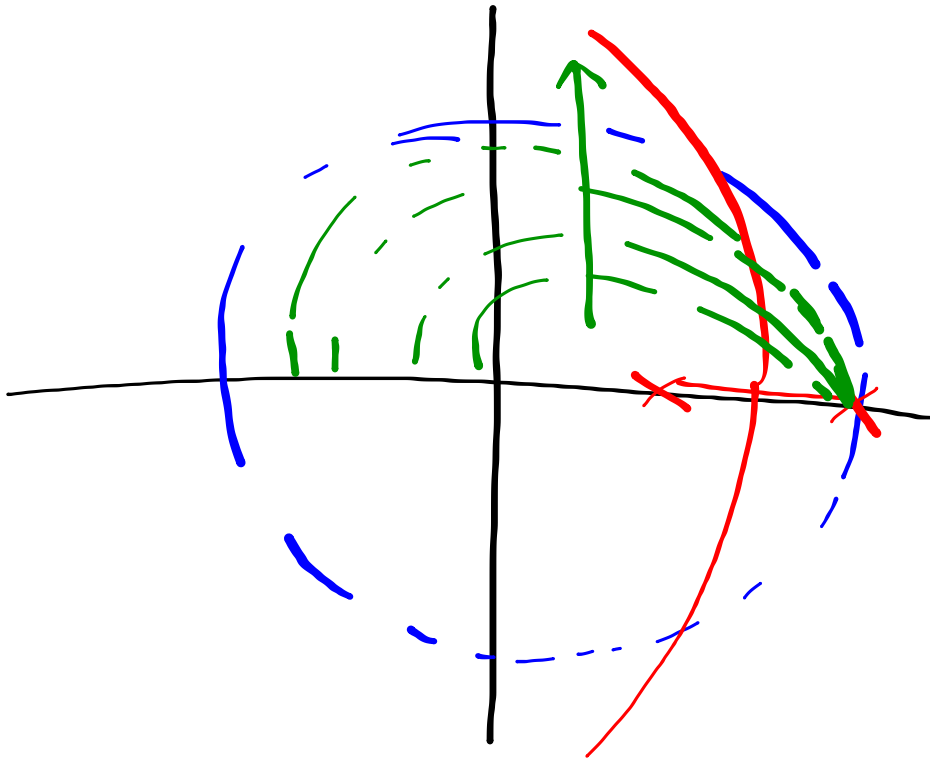


1)  ~~$D(z) = k$~~  ?  $\left\{ \begin{array}{l} S\% \leq 18\% (\delta \geq 0.5) \\ T_a \leq 7s \end{array} \right.$





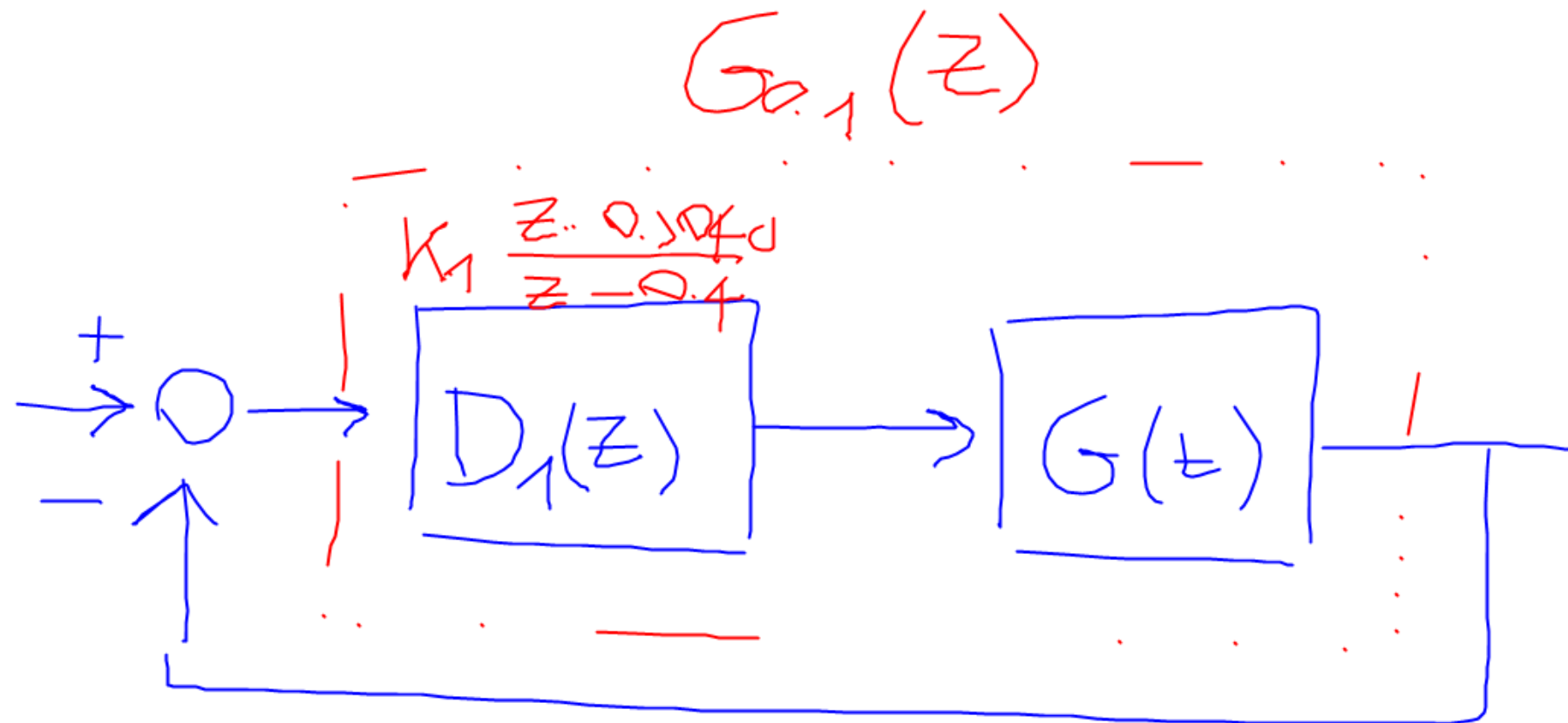
$$S \leq 18\% (\delta \geq 0.5)$$

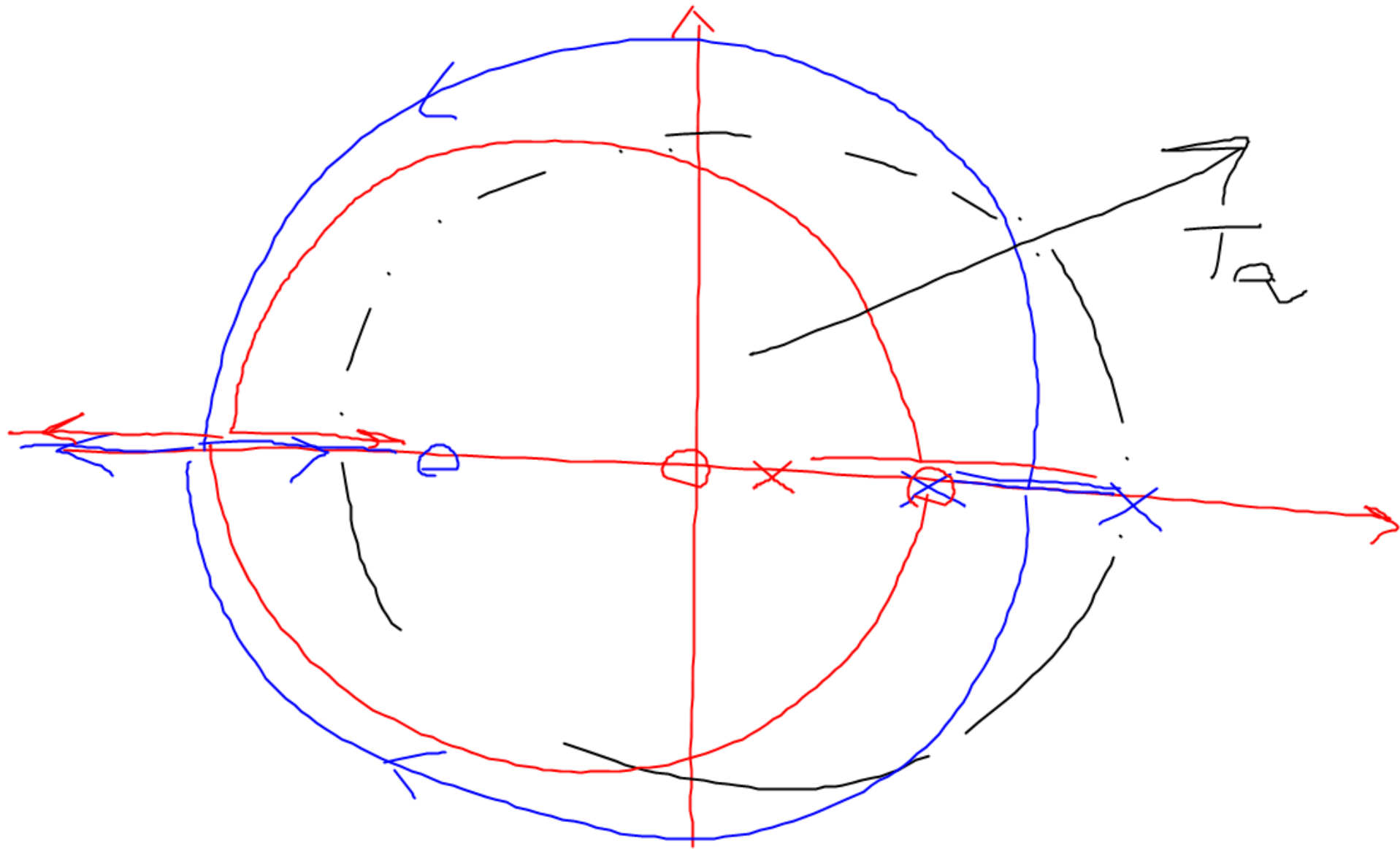
$$G(z) = 0.0484 \frac{z + 0.968}{(z-1)(z-0.9048)}$$

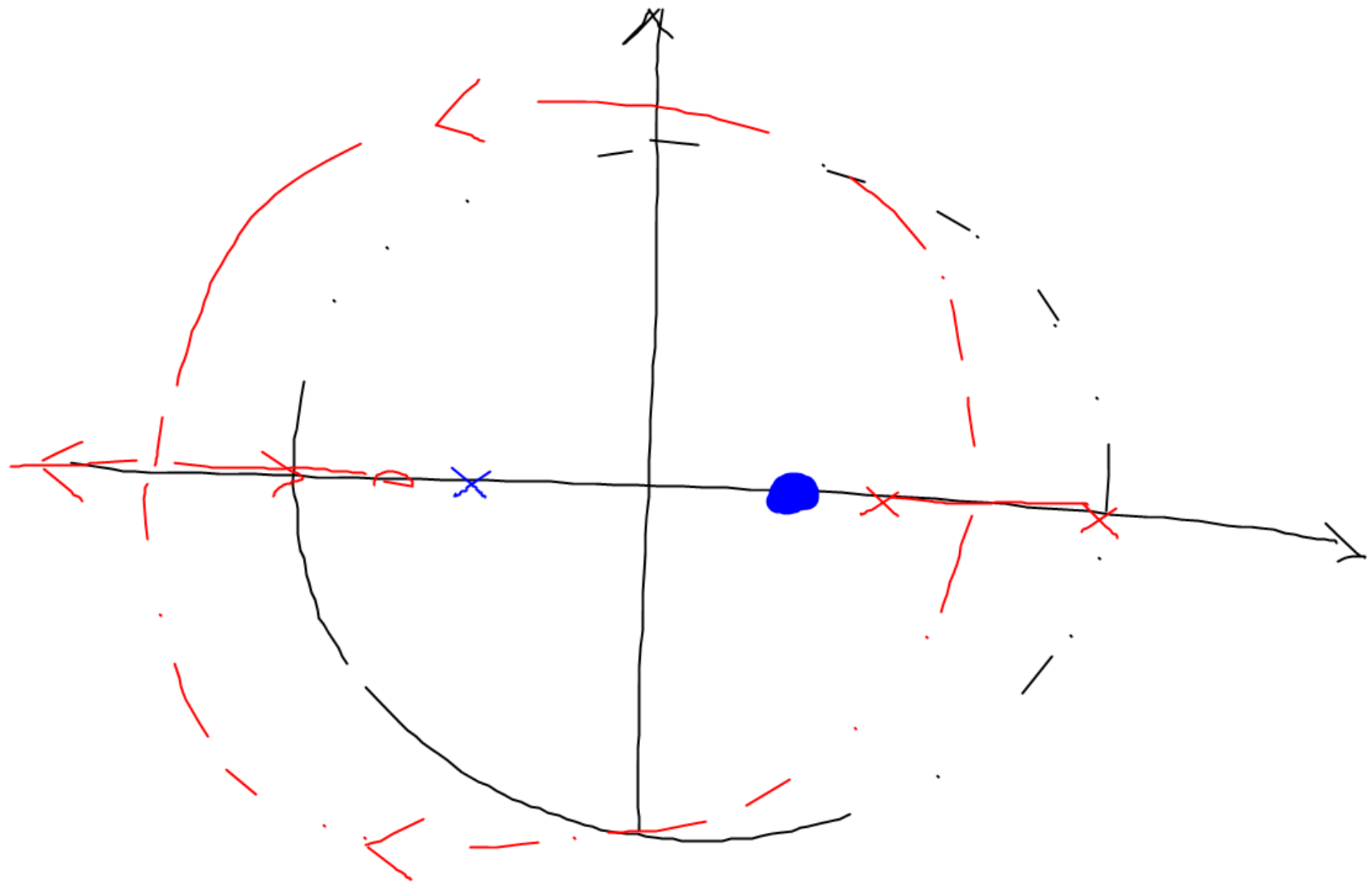
$$\left\{ \begin{array}{l} 5\% \leq 18\% \quad (\delta \geq 0.5) \\ T_a \leq 7s \end{array} \right.$$

$$D_1(z) = K_1 \frac{z - 0.9048}{z - 0.4}$$

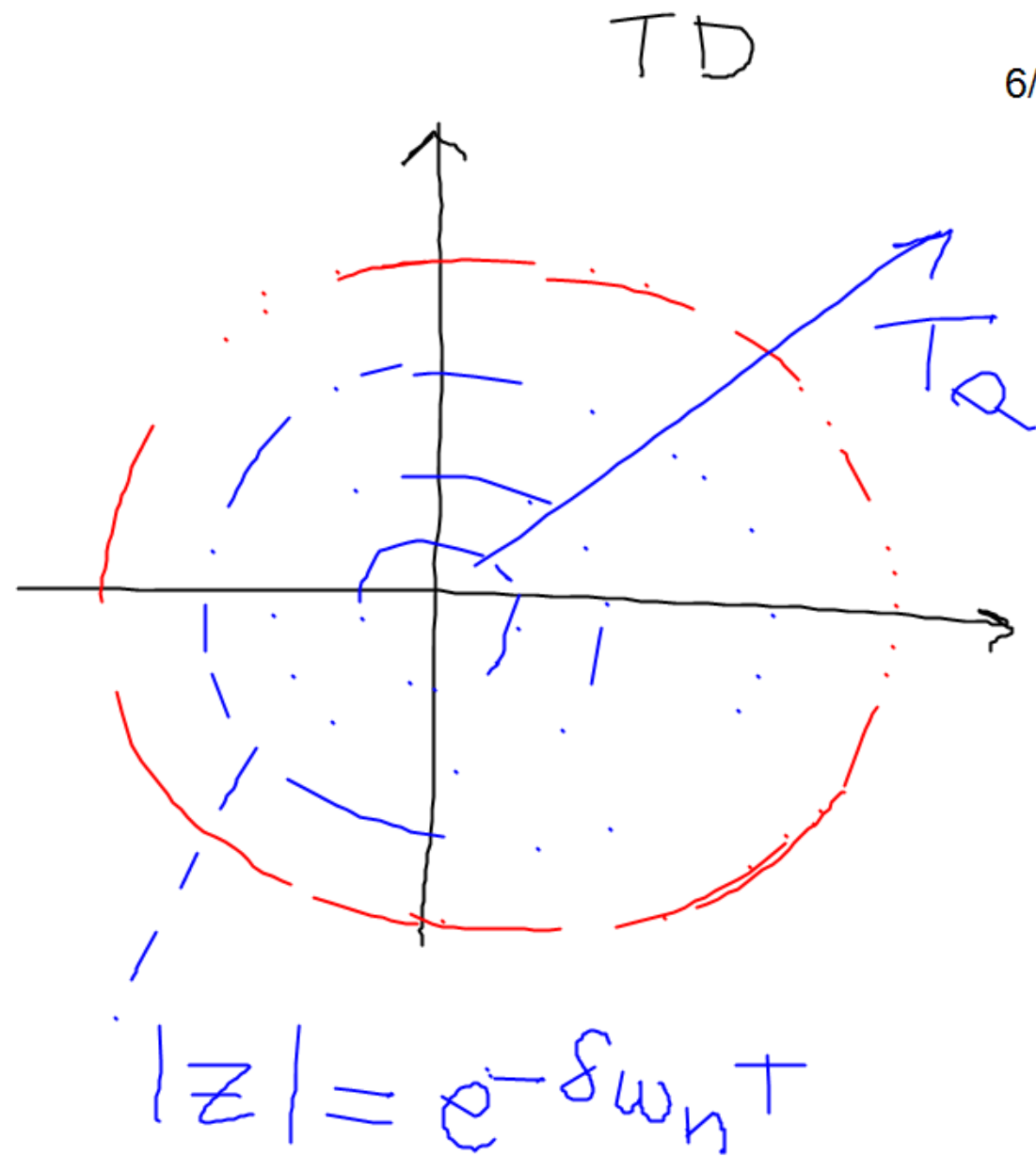
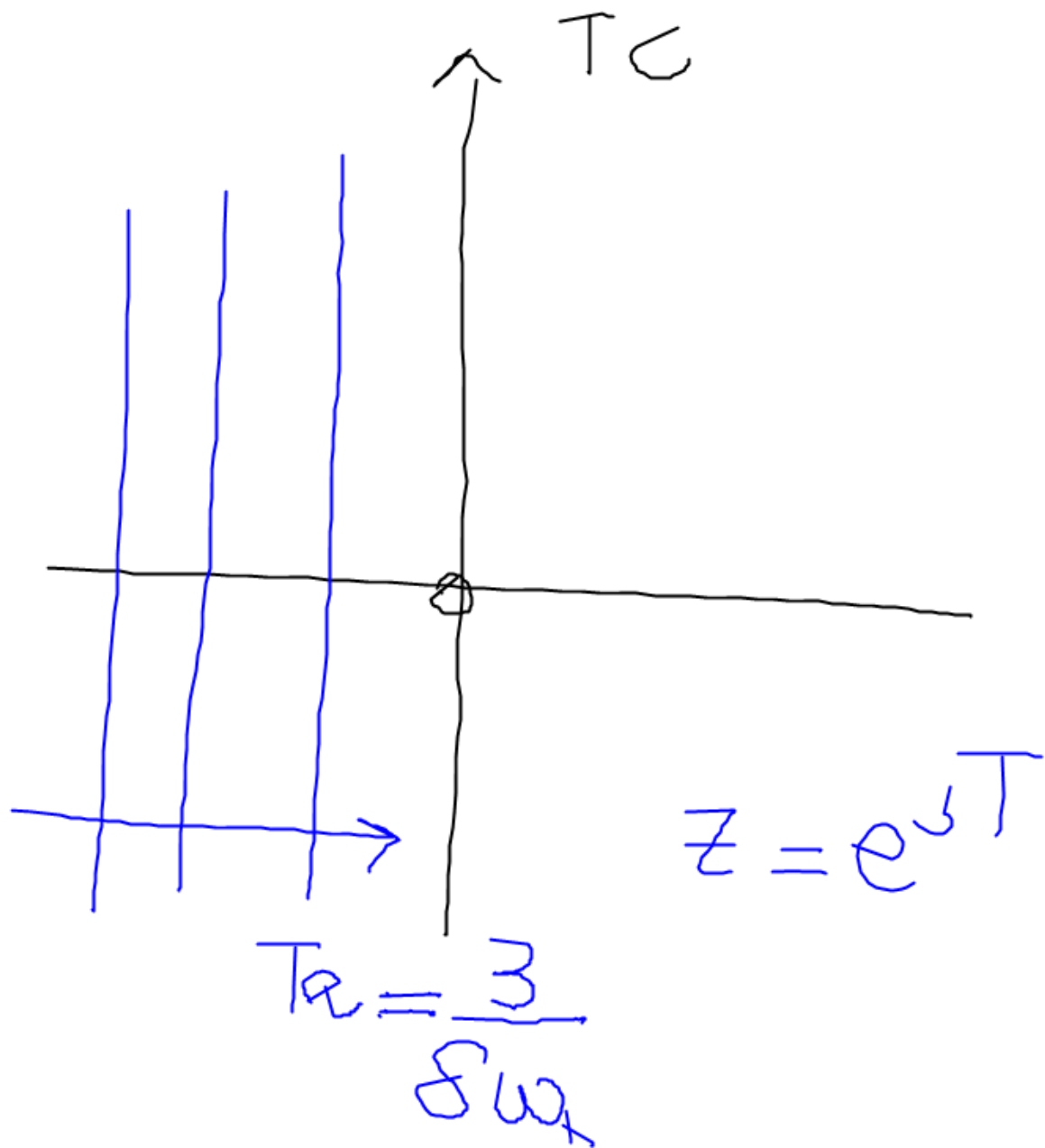
$$G_{1a}(z) = K_1 \frac{z - 0.9048}{z - 0.4} \cdot G(z)$$











$$D_L(z) = 13 \frac{z - 0.88}{z + 0.5}$$