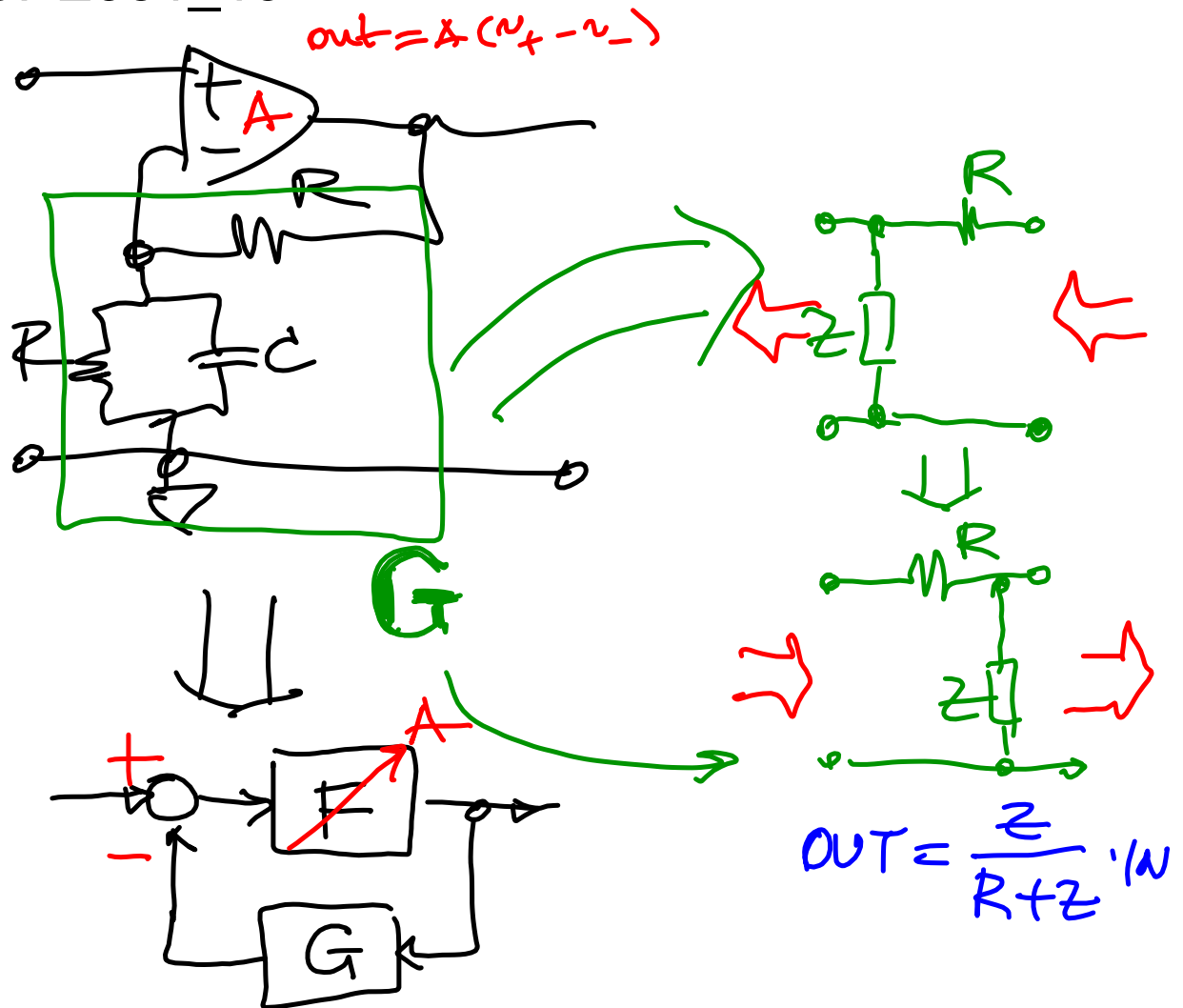
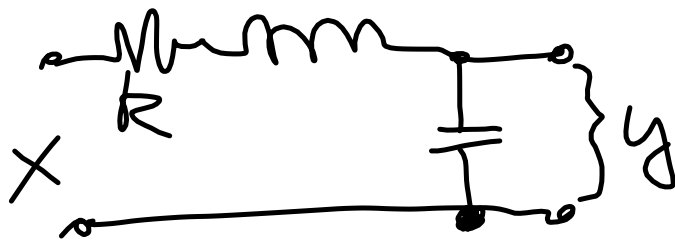


CPE381\_15



$$H(s) = \frac{A}{1 + A \cdot G} \approx \frac{\cancel{A}}{\cancel{A} \cdot G} = \frac{1}{G}$$

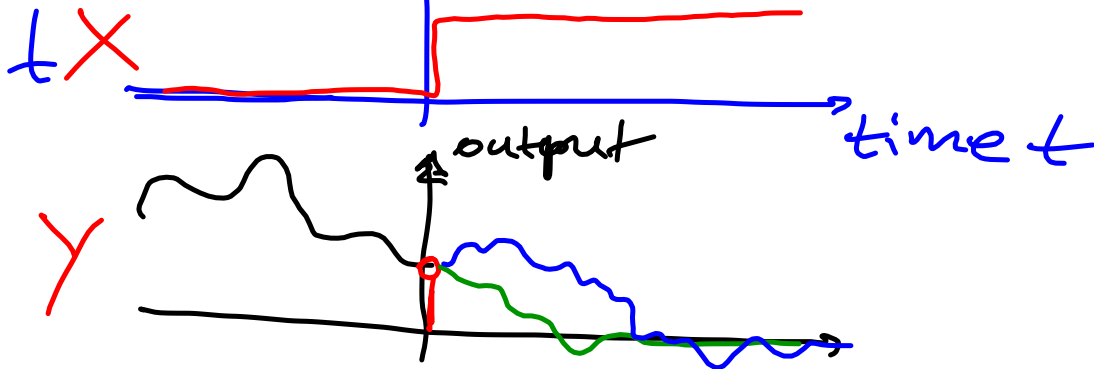
WHEN  
 $A \rightarrow \infty$



$$y(0) = 0$$

$$y(0) = 0.5 = 1$$

$$= \underbrace{\quad}_{\text{ZERO INPUT}} + \underbrace{\quad}_{\text{ZERO STATE}}$$

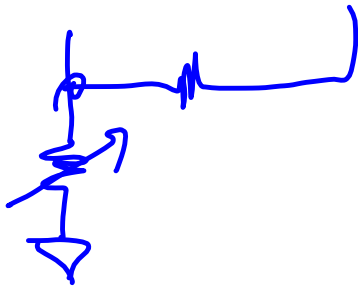
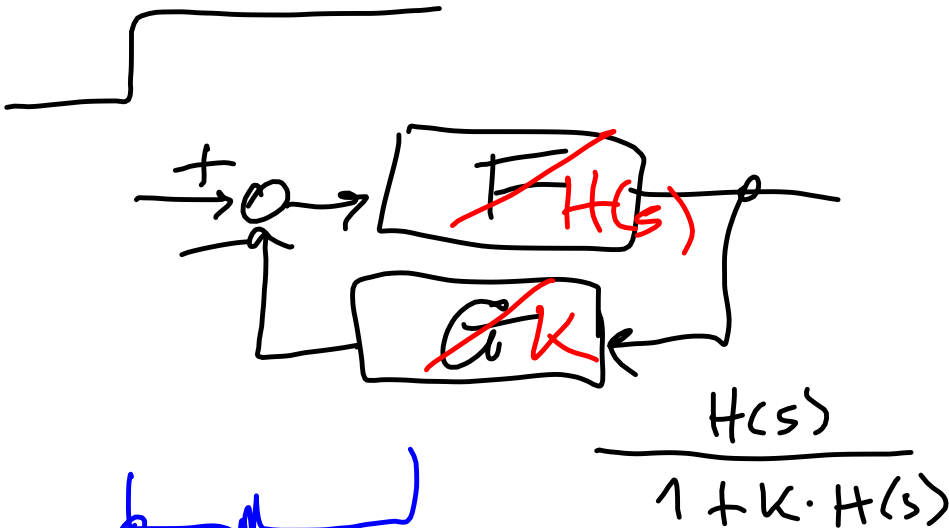
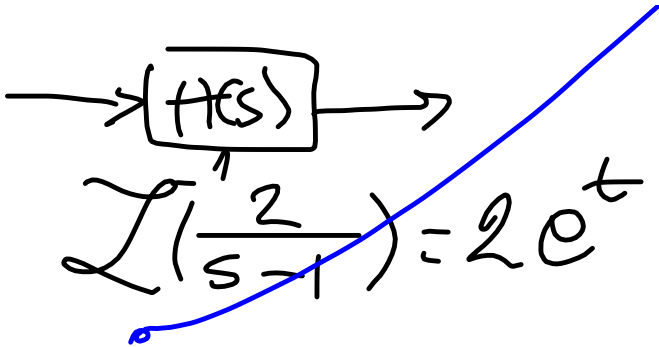


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$$\frac{1}{k(s+p_k)}$$

$$\frac{1}{(s+1)(s+2)}$$

$\uparrow$   $p_1$        $\uparrow$   $p_2$   
 $s+p_1 = 0$      $s = -p_1$   
 $-p_1 + p_1 = 0$   
 $\frac{1}{0} \rightarrow \infty$



$4 \cos(50t)$   
 $\omega_0$

Sin

