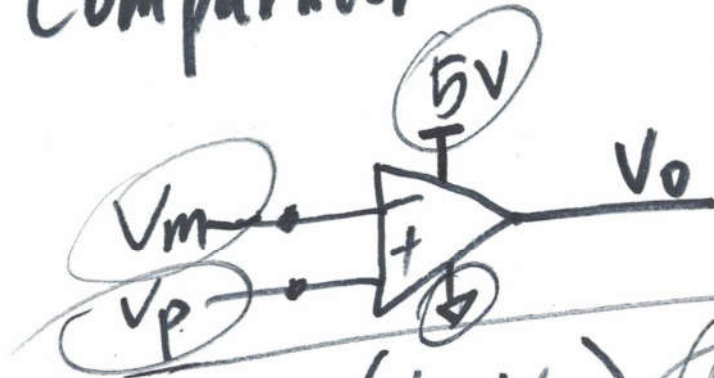


① Comparator



$$V_o = (V_p - V_m) \cdot A_v$$

$$A_v = \infty$$

$$V_p = 2V$$

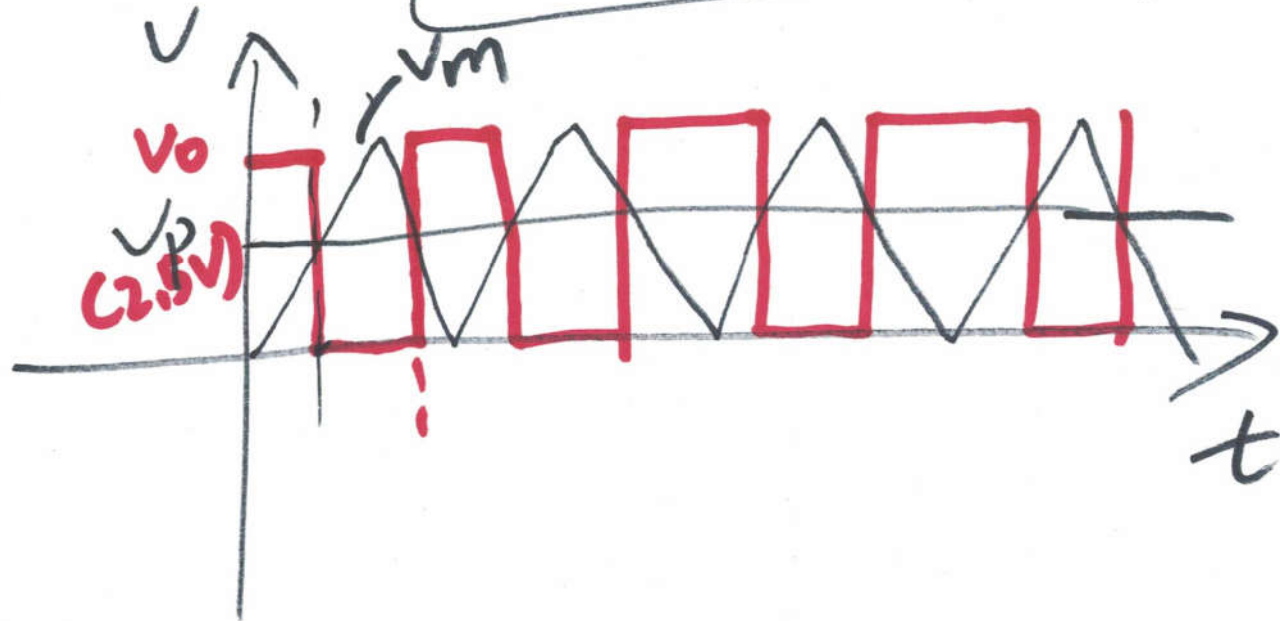
$$V_m = 1V$$

$$A_v = 1000$$

$$V_o = (V_p - V_m) \cdot 1000$$

$$= 1V \cdot 1000$$

$$= 1000V \rightarrow 5V$$



$$V_m = 2V$$

$$V_p = 1V$$

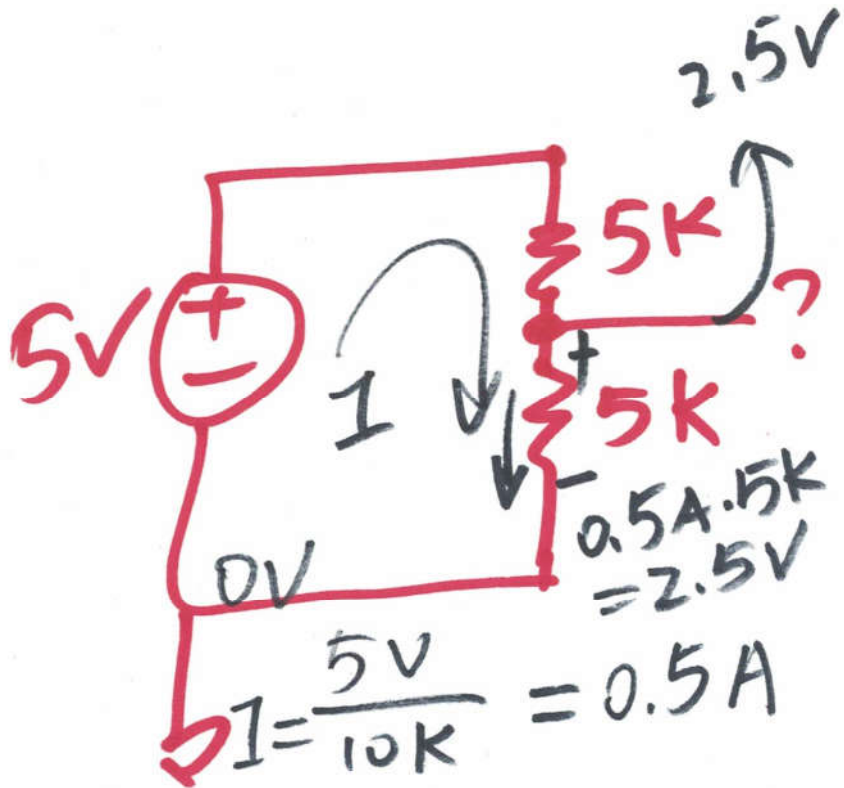
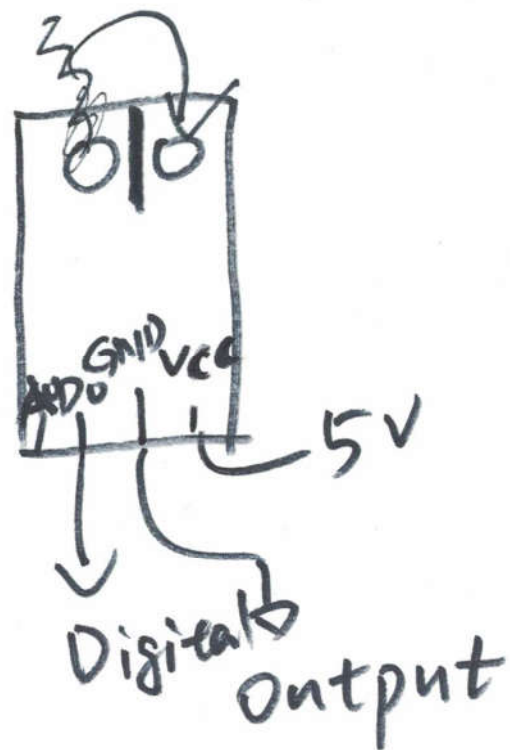
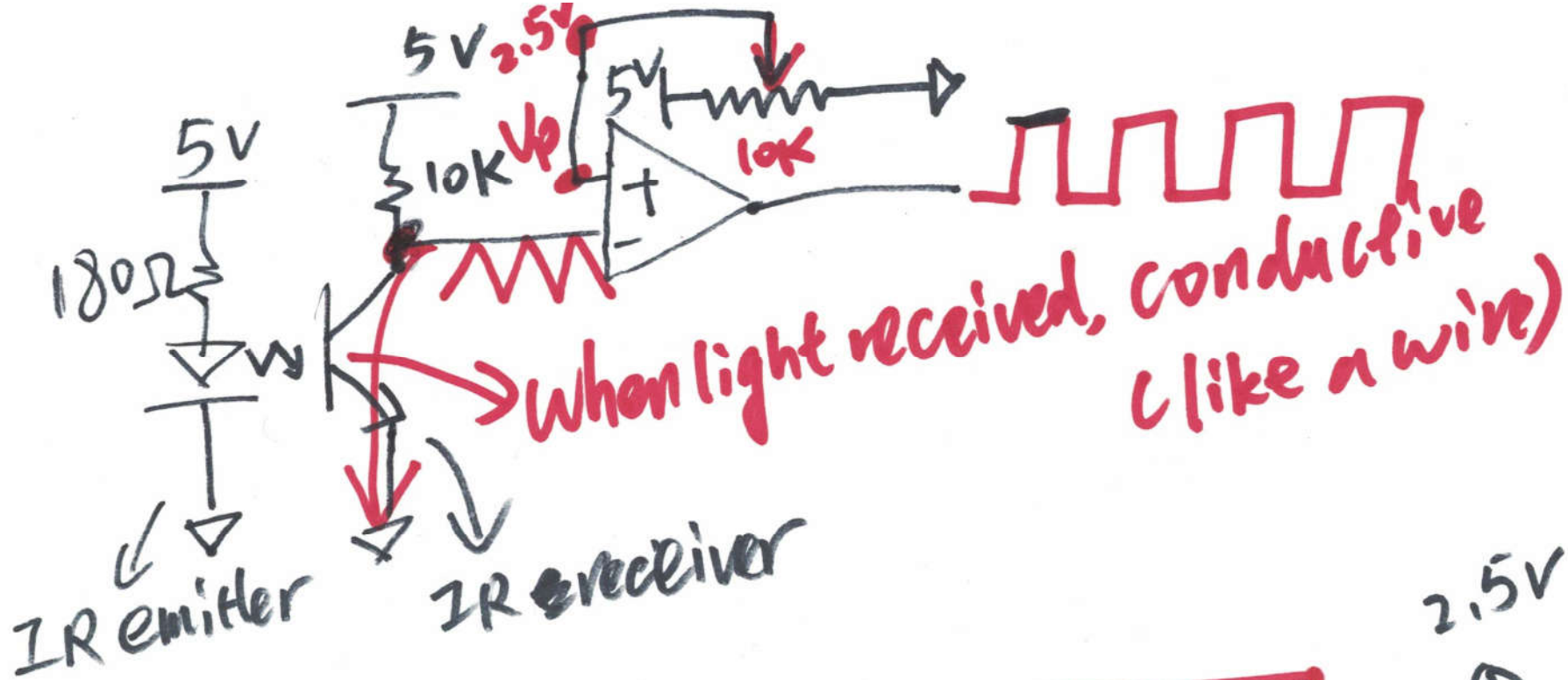
$$V_o = (V_p - V_m) \cdot 1000$$

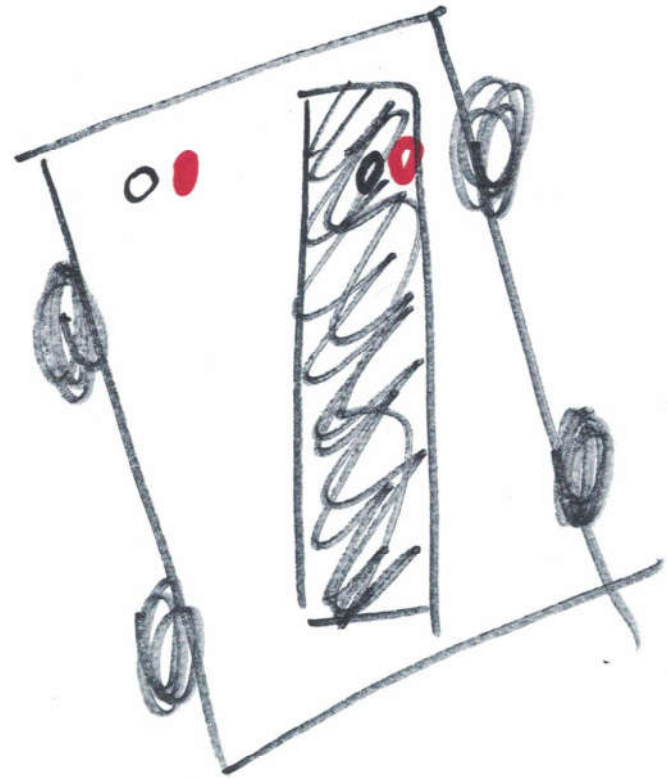
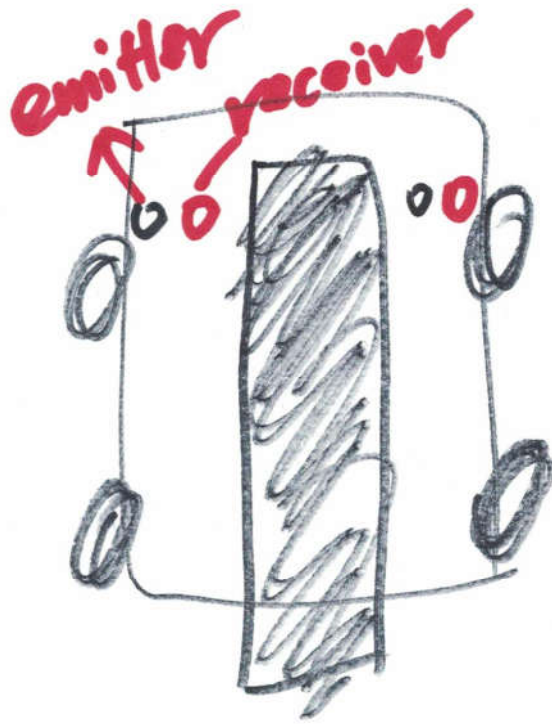
$$= -1V \cdot 1000$$

$$= -1000V$$

$$\rightarrow 0V$$

①

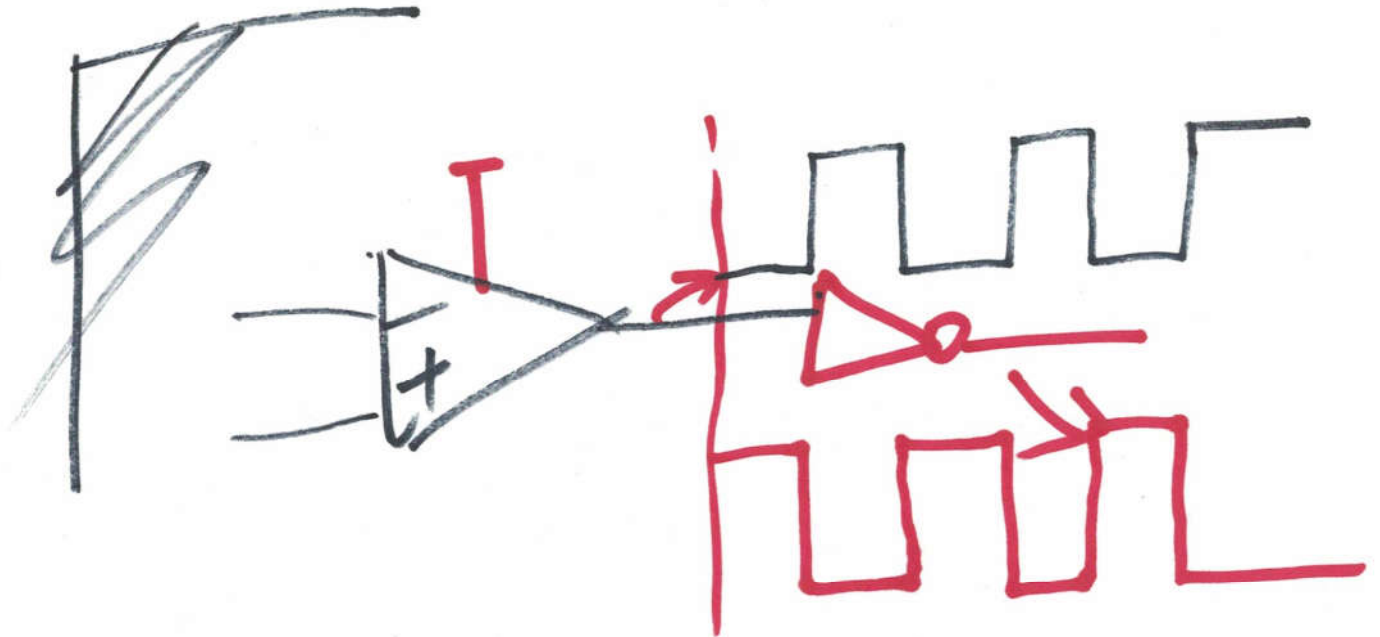
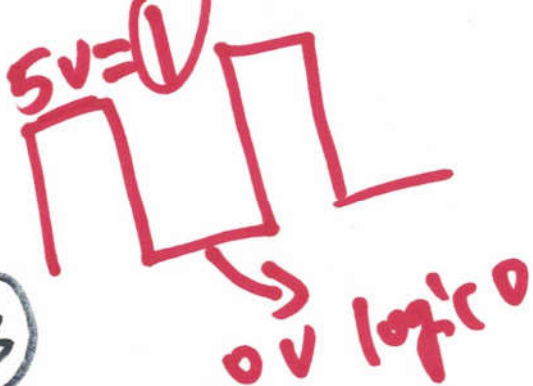




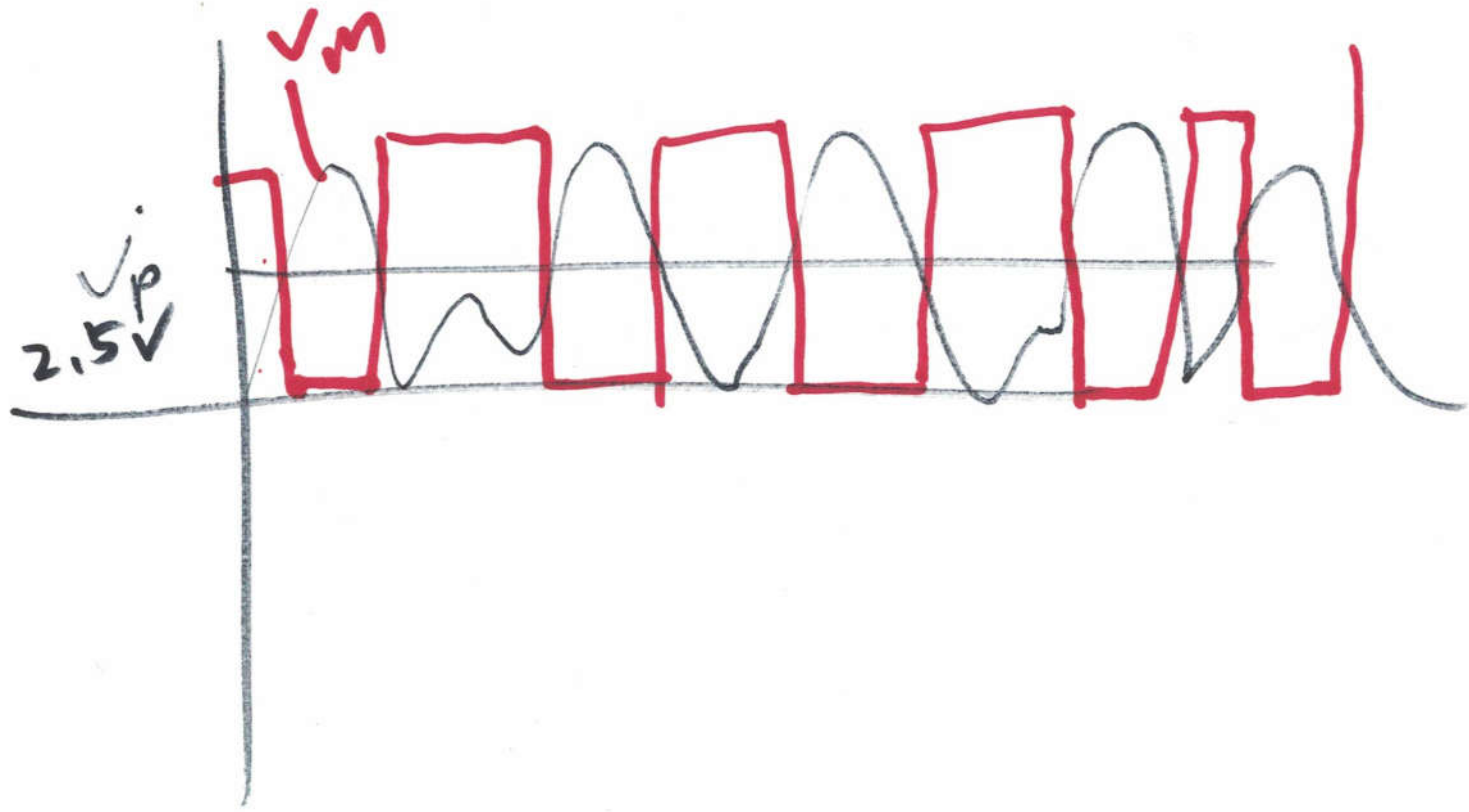
\bar{A}

$T=0$

$\bar{0}=1$



3



4