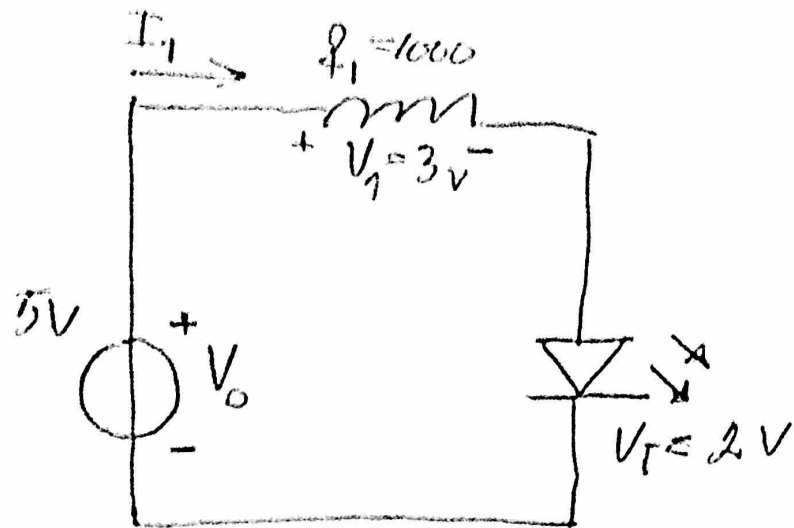


PROBLEM 4



$$V_1 = I_1 \cdot R_1 \Rightarrow V_1 = I$$

$$\frac{3}{1000} = I_1 \cdot \frac{(1000)}{1000}$$

$$I_1 = 0.003 \text{ A} \approx 3 \mu\text{A}$$

$$P_D = I_D \cdot V_D$$

$$P_D = 0.003 \cdot 2$$

$$P_D = 0.006 \approx 6 \mu\text{W}$$