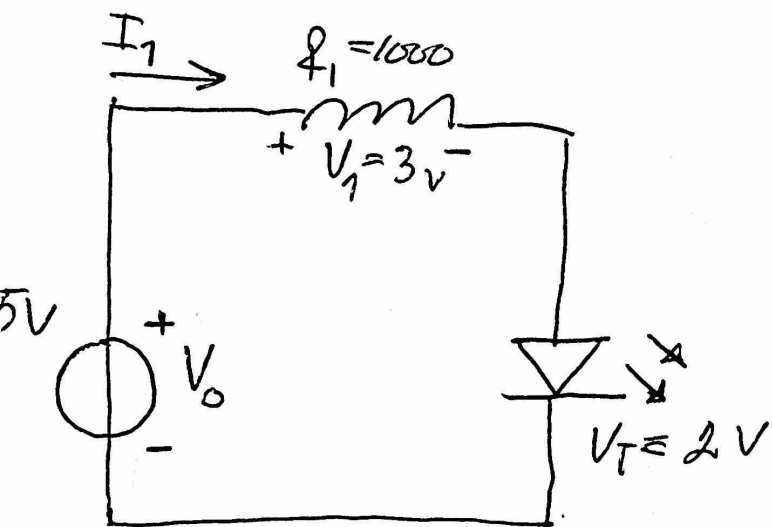# PROBLEM 4

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

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

$$I_1 = 0.003 \, A = 3 \, mA$$

$$P_D = I_D \cdot V_D$$

$$P_D = 0.003 \cdot 2$$

$$P_D = 0.006 = 6 \, mV$$