

$I_s = \text{saturation current}$

electrons - vs - holes

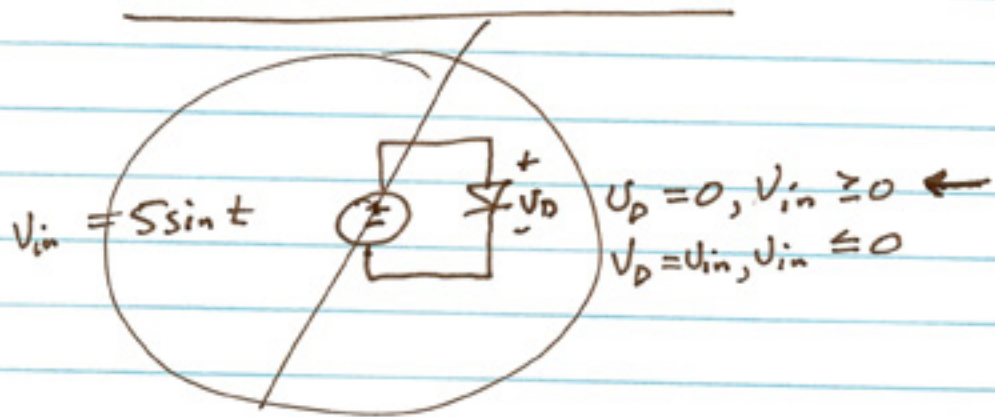
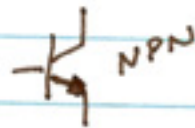
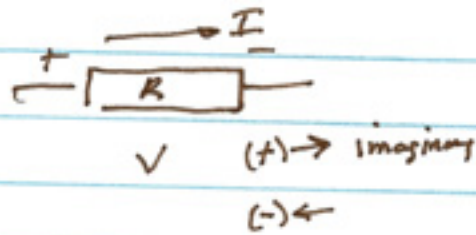


$1 \text{ coulomb} / 1 \text{ second} = 1 \text{ Ampere}$

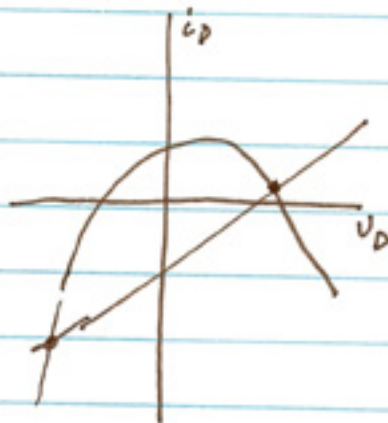
$\leftarrow (e^-)$

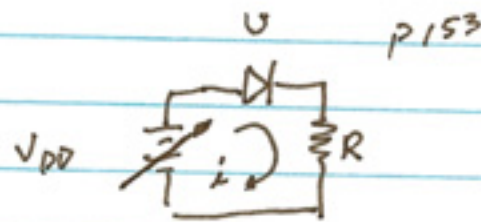
$(h^+) \rightarrow$

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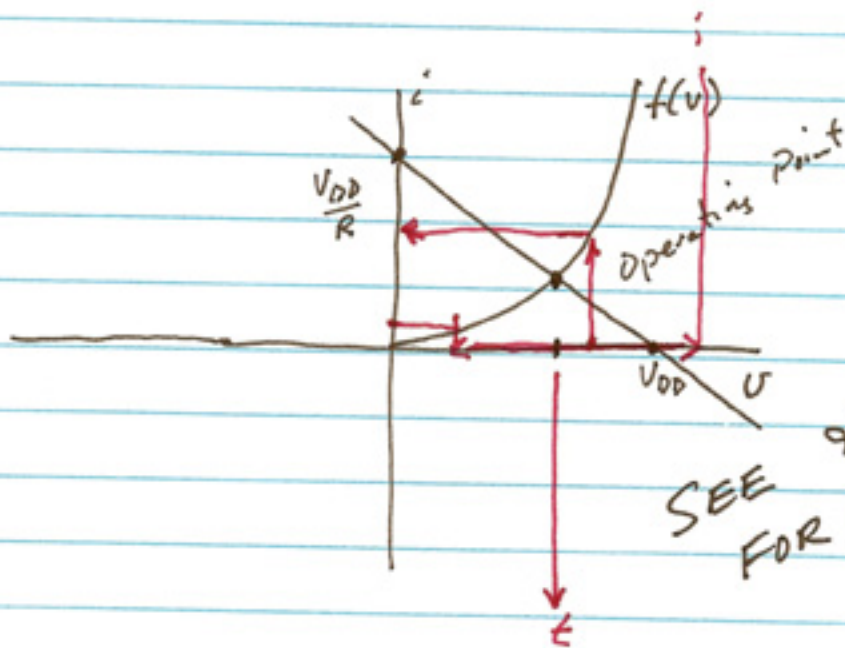


$$\begin{cases} v_D = f_1(i_D) \\ v_D = f_2(i_D) \end{cases}$$





$V_{DD} = V + Ri$ eqn #1
 $i = f(v)$ eqn #2, graph



SEE 9/12 LECTURE FOR MORE DETAIL

