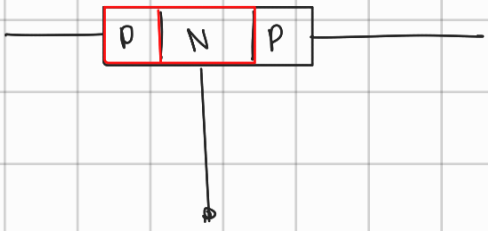
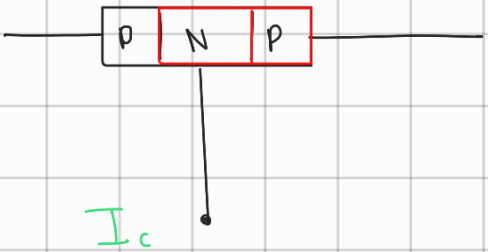
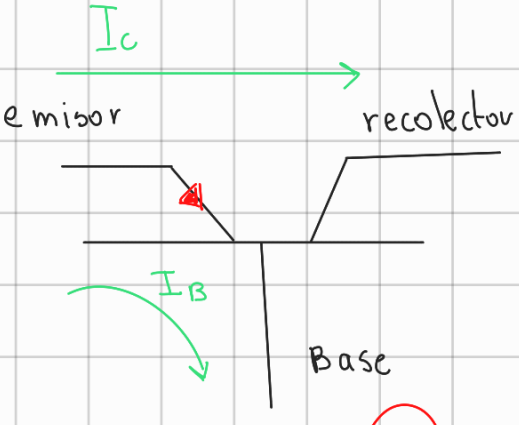
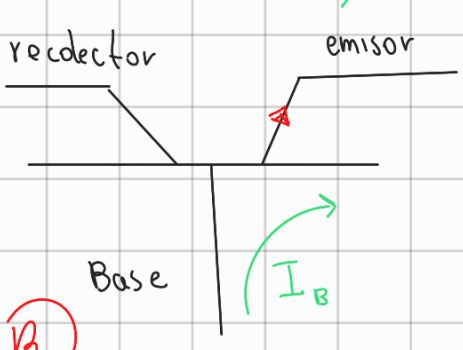
diodo

transistor (BJT):

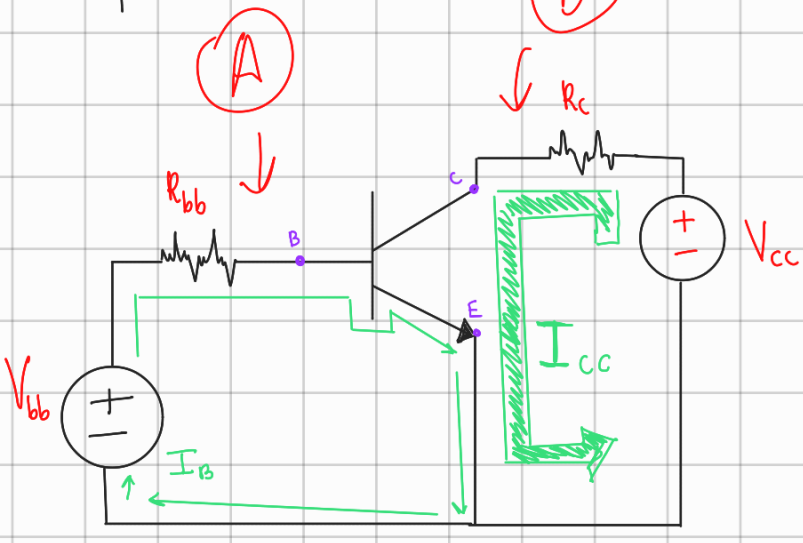








Polarizacion:



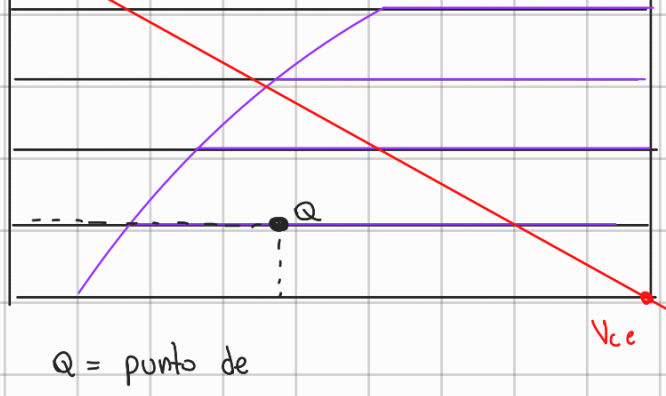
$I_c = \beta I_B$ $\quad \frac{I_c}{I_B} = \beta$ ← Ganancia

$I_e = I_B + I_c$

(A) $V_{BB} = I_B \cdot R_{bb} + V_{be}$ (0,7)

(B) $V_{CC} = R_C \cdot I_C + V_{ce}$

Si $I_B = 0$



Q = punto de operación

$\Rightarrow I_C = \beta I_B \rightarrow I_C = 0$

Si $V_{ce} = 0$

$I_C = \frac{V_{cc}}{R_{cc}}$

3 zonas

Curvas del transistor