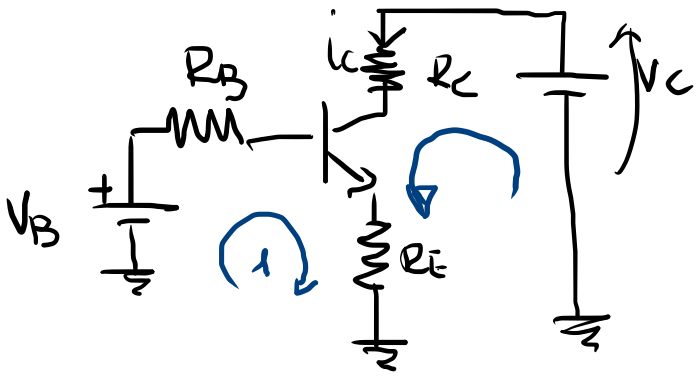

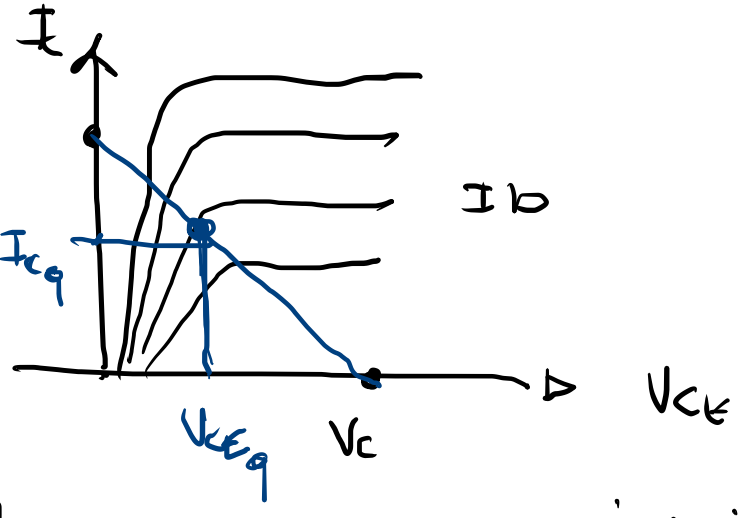

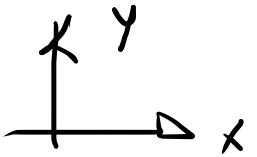

$$V_C = R_C \cdot i_C + V_{CE} + i_C R_E$$

$$i_C \cong i_E$$

$$R_C \cdot i_C + i_C R_E = V_C - V_{CE}$$

$$i_C = \frac{V_C - V_{CE}}{R_C + R_E}$$

$I_C = 0$

$$\frac{V_C - V_{CE}}{R_C + R_E} = 0 \qquad \frac{V_C}{R_C + R_E} - \frac{V_{CE}}{R_C + R_E} = 0$$

$$V_{CE} = V_C$$

$V_{CE} = 0$

$$i_C = \frac{V_C}{R_C + R_E}$$

$i_C \rightarrow i_C = \beta i_b \rightarrow i_b = \frac{i_C}{\beta}$

0% .. 07

0,65 V

$$V_B = R_B \cdot i_b + V_{BE} + i_C R_E$$