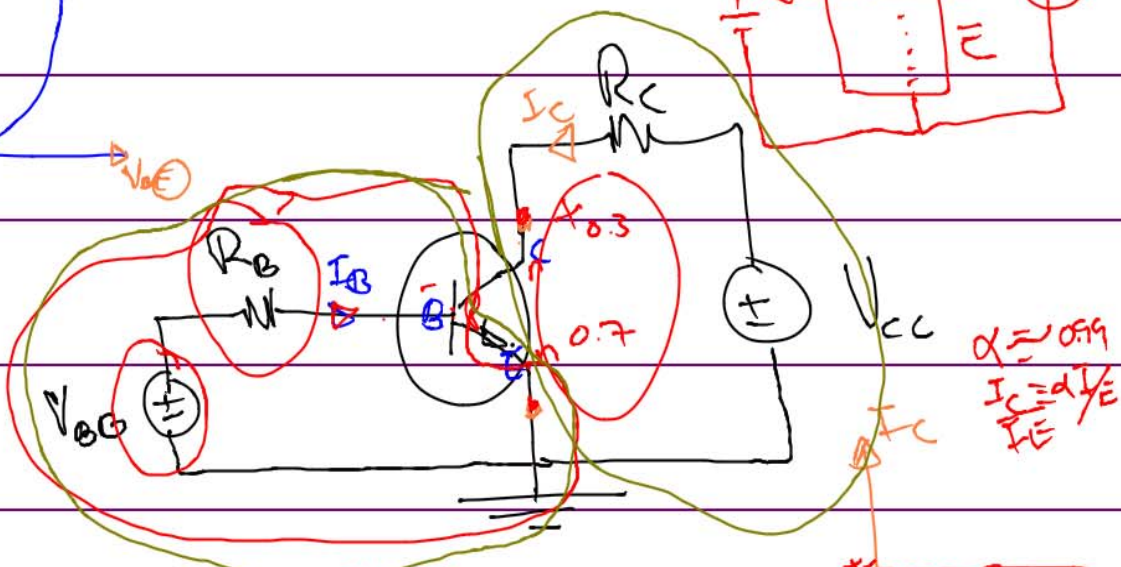
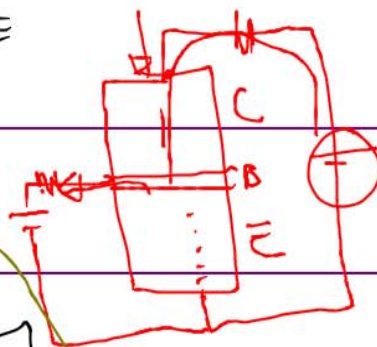
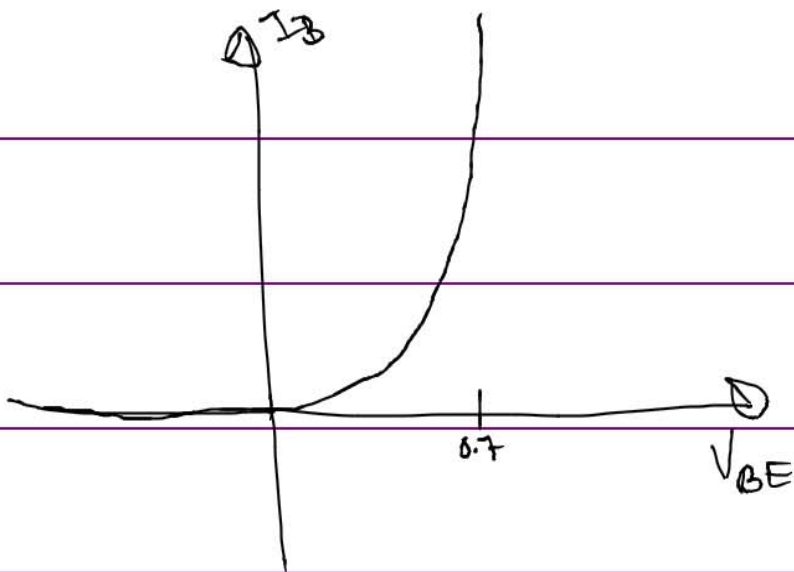


$$V_{AB} = V_A - V_B$$

$$V_{BE} = V_B - V_E$$



$$\alpha \approx 0.99$$

$$I_C = \alpha I_E$$

$$I_E = I_C / \alpha$$

$$V_{BE} - I_B R_B - 0.7 = 0$$

$$10.7 - I_B \times 1000 - 0.7 = 0$$

$$10 = 1000 I_B$$

$$I_B = 0.01 \text{ A} = \frac{10 \text{ mA}}{1000} = 10 \mu\text{A}$$

20 μA

