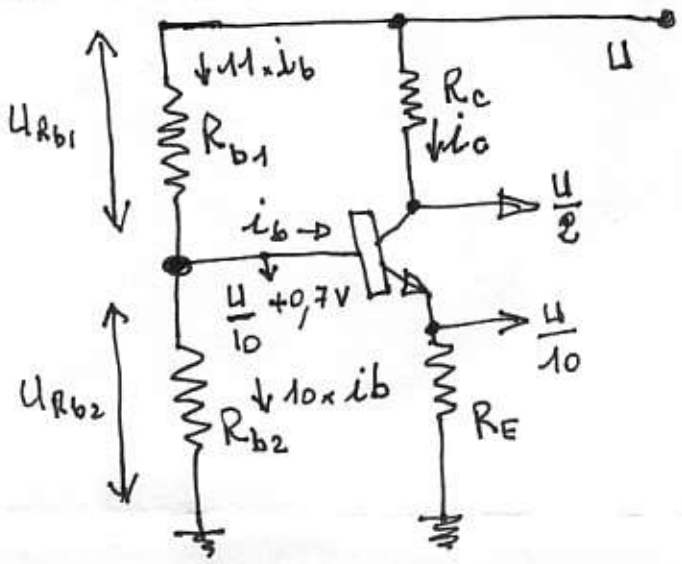

Ex:

$U = 12V$

$I_C = 10mA$

$U_e = 1{,}2V$

$U_b = 1{,}2 + 0{,}7 = 1{,}9V$

$U_c = \frac{12}{2} = 6V$

$i_b = \frac{10mA}{200(\beta)} = 50\mu A$

$R_E = \frac{1{,}2V}{10{,}05mA} \simeq \underline{120\Omega}$

$$i_E = (\beta \times i_b) + i_b = (\beta + 1) \cdot i_b$$

$$i_b = \frac{i_c}{\beta}$$

$$R_C = \frac{6V}{10mA} = \underline{600\Omega}$$

$$U_{Rb1} = \underline{12V - 1{,}9V} = 10{,}1V$$

$$R_{b1} = \frac{10{,}1V}{(11 \times 50\mu A)} = \underline{18.364\Omega} = \underline{18200\Omega}\ E96. \quad \underline{18700}\ E48$$

$$R_{b2} = \frac{1{,}9V}{(10 \times 50\mu A)} = \underline{3.800\Omega} = \underline{3830\Omega}\ E96 \quad // \quad E48$$