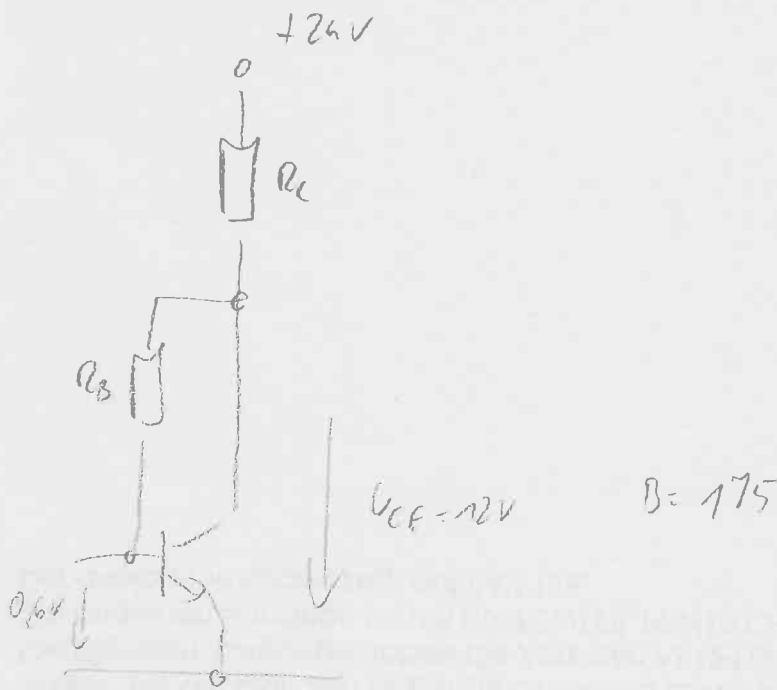




$$R_C = \frac{12V}{I_C}$$

$$R_B = \frac{12V - 0.6V}{I_B}$$

$$I_B = \frac{I_C}{B}$$

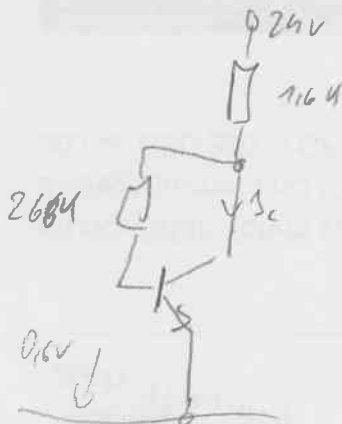
$$I_C = \frac{12V}{1.6k\Omega}$$

$$= 7.5mA$$

$$R_B = \frac{B \cdot (12V - 0.6V)}{I_C}$$

$$R_B = \frac{175 \cdot 11.4V}{7.5mA}$$

$$R_B = 266k\Omega$$



$$V_{CE} = 24V - I_C \cdot 1.6k\Omega$$

$$I_B = \frac{I_C}{B} = \frac{V_{CE} - 0.6V}{266k\Omega}$$

$$V_{CE} = 24V - I_C \cdot 1,6k$$

$$\frac{I_C}{\beta} = \frac{24V - I_C \cdot 1,6k - 0,6V}{266k}$$

$$\frac{I_C}{\beta} = \frac{23,4V - I_C \cdot 1,6k}{266k}$$

$$I_C \cdot 266k = 23,4V \cdot \beta - \beta \cdot I_C \cdot 1,6k$$

$$I_C (266k + \beta \cdot 1,6k) = 23,4V \cdot \beta$$

$$I_C = \frac{23,4V \cdot 200}{266k + 200 \cdot 1,6k}$$

$$I_C = 7,986mA$$

$$V_{CE} = 11,22V$$