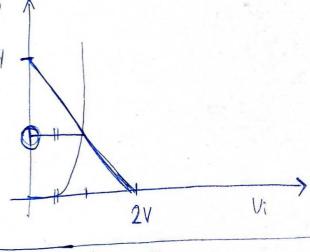


$$R_1 = R_2 = 100$$
 $V = 4V$
 $I_D = 3$

$$Ri = \frac{100 \cdot 100}{100 + 100} = 50\Omega$$

$$I_{max} = \frac{Ui}{2i} = \frac{2}{50} = 0.09A = 40 \text{ mA}$$



$$I_{C} = \beta \cdot I_{B} \qquad 0.02 = 50 \cdot I_{B}$$

$$I_{B} = 100 \times \frac{0.02}{50} = 0.00044$$

 $T_{E} = \overline{I}_{B} + \overline{I}_{C}$

$$V_{B} - R_{B} \cdot I_{B} - V_{BE} = 0$$
 $V_{CC} - R_{C} \cdot I_{C} - V_{CE} = 0$
 $R_{B} = \frac{V_{B} - V_{BE}}{I_{B}} = \frac{4^{13}}{0^{10004}} = \frac{10^{1750}\Omega}{155}$
 $R_{C} = \frac{V_{CC} - V_{CC} \cdot V_{CE}}{I_{C}} = \frac{155}{155}$

Cellová impedancia -> proid V -> napotis VR=R·I, VL=ZL·I -> veltor (pytag-veta) Aluj je.Filter? l-) dea whole knitocty gradis 1 rad/s Cimje a vyssi, tym väisie napähena cievke a mensie na rezistore = dolno propustný 2 kirch. zaton Ilez ? IRz = VCE - VCC = 50 m A