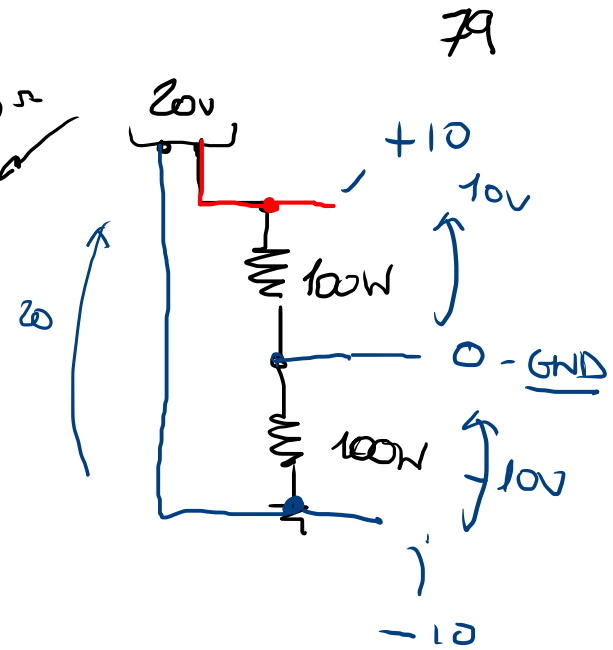
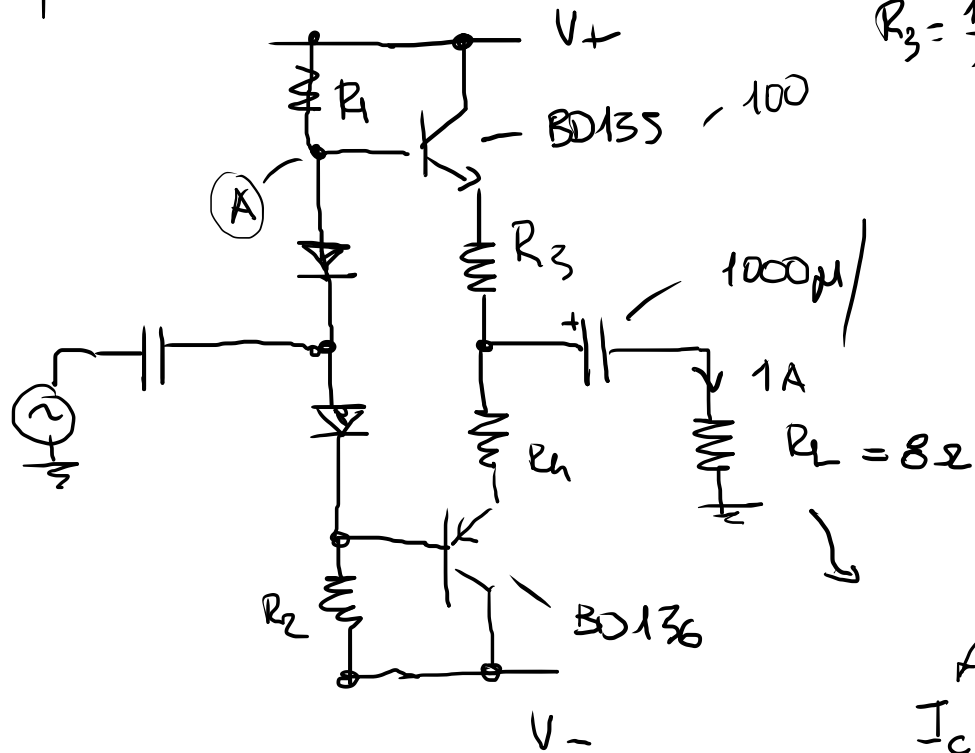
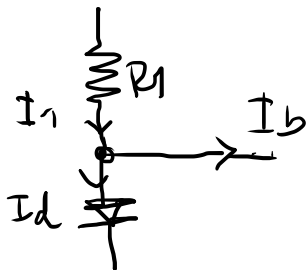


push-pull 2



$$I_c = \beta I_b$$

$$I_b = \frac{I_c}{\beta} = \frac{1000}{100} = 10 \text{ mA}$$



$$I_1 = I_b + I_d = 20\text{mA}$$

$$12 - 0,6 = 11,4 \text{ v}$$

$$R_1 = \frac{V}{I} = \frac{11,4}{0,0012} \Omega$$

