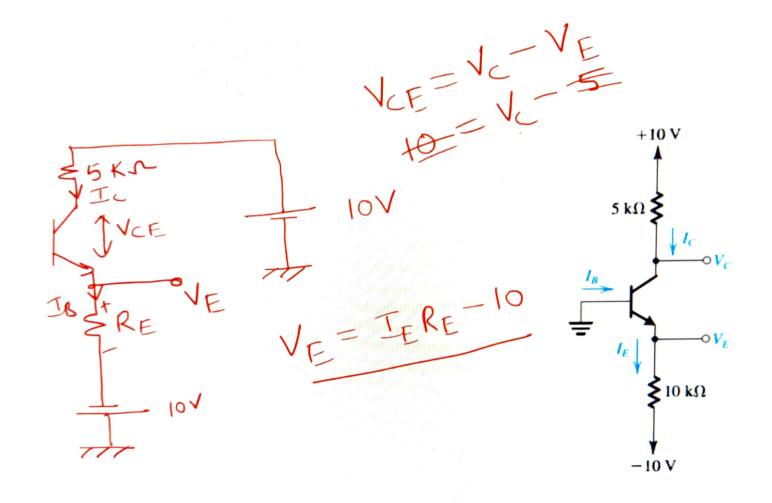
Problem

+10 V In the circuit shown in Fig., the voltage at the emitter **№ 5 kΩ** was measured and found to be -0.7 V. If $\beta = 50$, find I_{E} , I_{B} , I_c , and V_c . € 10 kΩ

cc

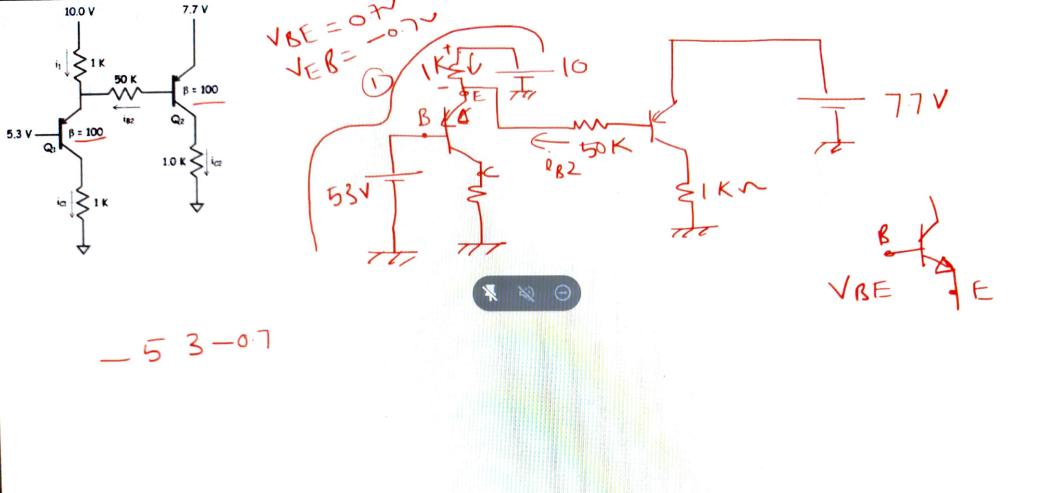
Paul Braine











CC

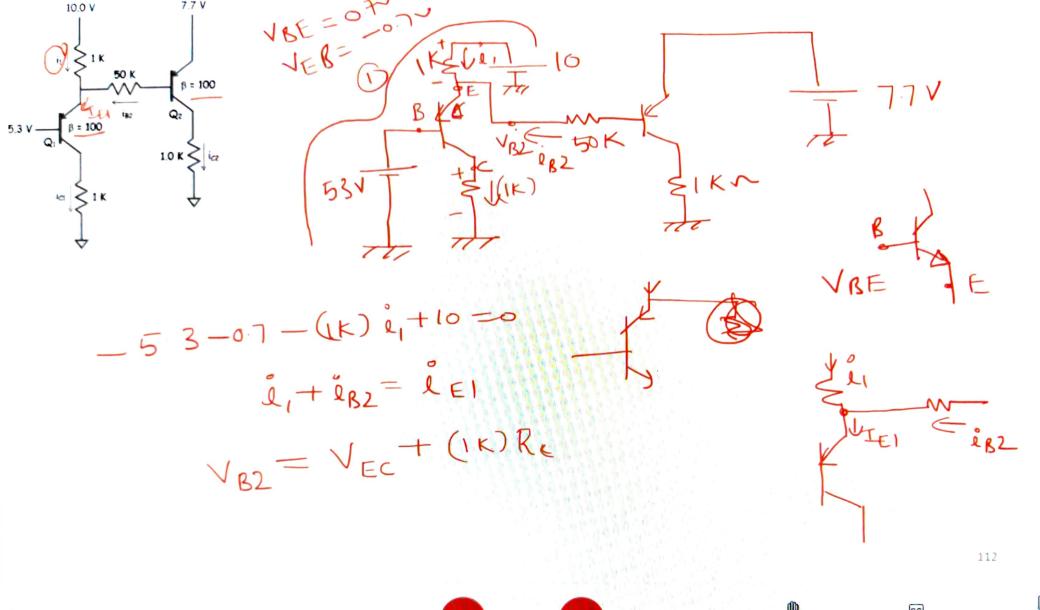
112

+

Paul Brain

is presen

etails ^



tails ^

K

N



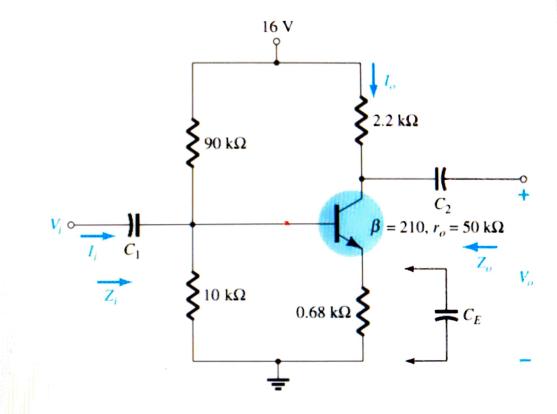
EE Turn on captions

Paul Brai is prese

Voltage divider configuration

$$\frac{16V}{10K} = \frac{10K}{10K} \times 16V$$

$$= 1.6V$$



118



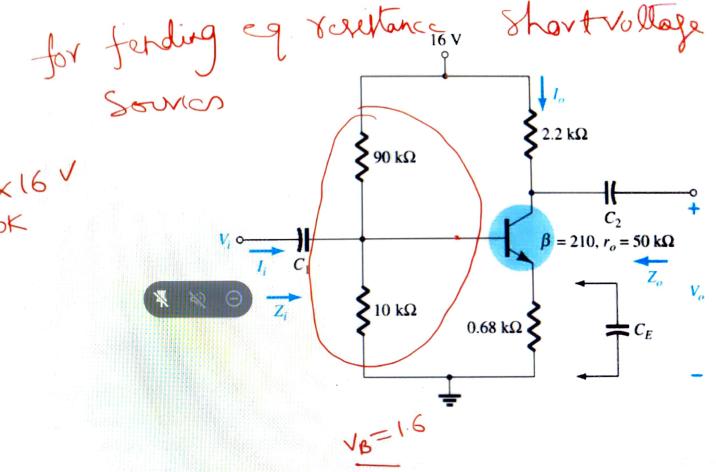






Voltage divider configuration

 $90 \text{ M} = \frac{10 \text{ K}}{10 \text{ K} + 90 \text{ K}} = \frac{1.6 \text{ V}}{10 \text{ K} + 90 \text{ K}}$



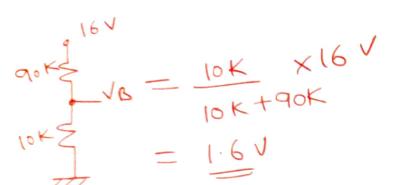


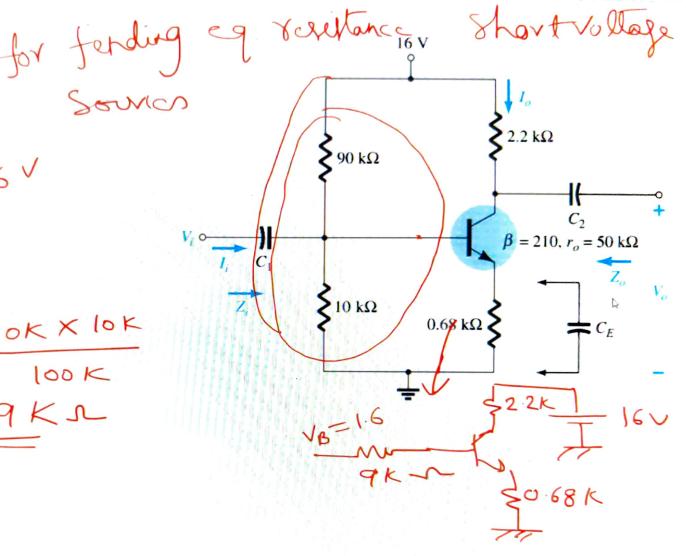






Voltage divider configuration





118



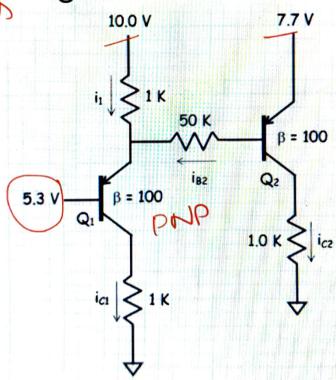




Problem

Find currents and voltages

method anolying





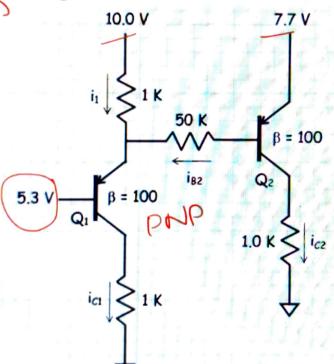


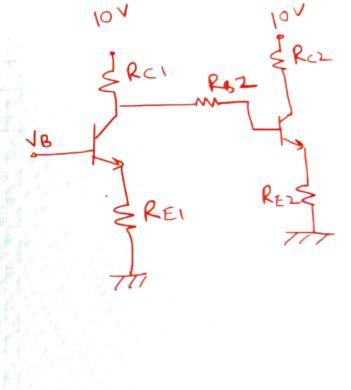


Problem

Find currents and voltages

million amplifiers





111







