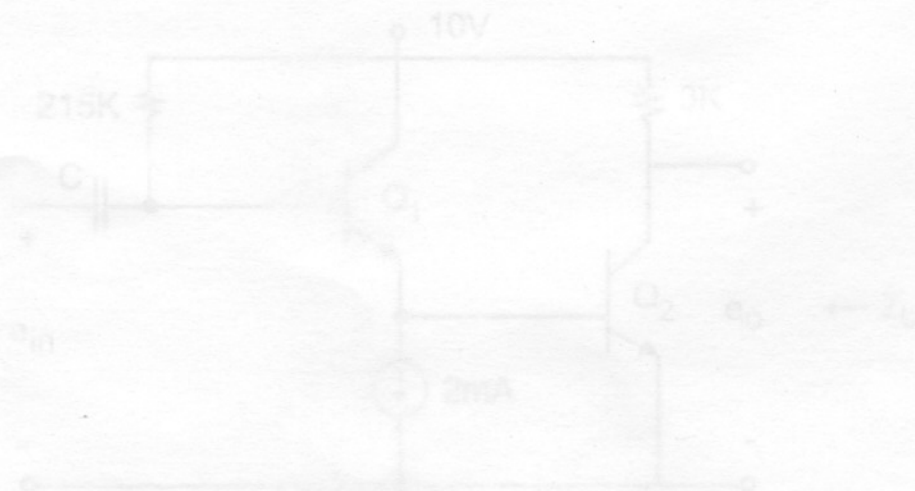


(3) The two capacitors in the circuit are ac coupled and have $C_1 = 10 \mu\text{F}$ and $C_2 = 10 \mu\text{F}$.

$$I_{E2} = I_{C2} = V_{CE1Q} = V_{CE2Q} \quad \text{Transistors } Q_1 \text{ and } Q_2 \text{ are } 2N2222.$$

Assume $\beta = 50$, $V_{BEQ} = 0.7\text{V}$ and all capacitors are ac shorts.



The 2mA current source is to be used in Problem 4.

Find R_E so that $I = 2\text{mA}$. Assume all capacitors are ac shorts.

$$\alpha = 0.98, V_{BEQ} = 0.7\text{V}$$

