





$$I_{T} = \frac{E}{(R_{1}/R_{2})} = \frac{100 \text{ mV}}{(25\Omega / 5\Omega)}$$

$$= \frac{100 \text{ mV}}{25 + 125 \Omega} = 24 \text{ mA}$$

$$I_{1} = \frac{R_{2}}{R_{1} + R_{2}} I_{T} = \frac{5}{25 + 5} \times 24 \text{ mA} = 4 \text{ mA}$$

$$I_{2} = \frac{R_{1}}{R_{1} + R_{2}} I_{T} = \frac{25}{25 + 5} \times 24 \text{ mA} = 20 \text{ mA}$$