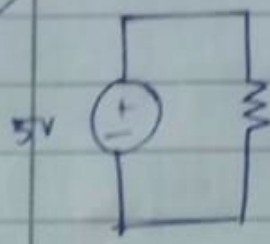
Module – 9

Circuit Analysis – Basics

Eg-1

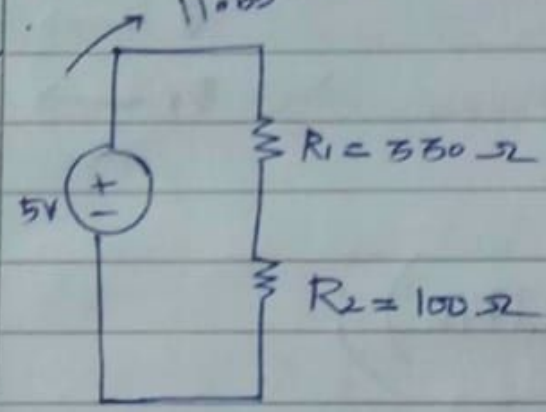


$I = \frac{V}{R} = \frac{5}{330\ \Omega}$

$I = 15.15\ \varepsilon{-3}$ Amps.

$I = 15.15$ mAmps.

Eg-2



$R_s = R_1 + R_2 = 330\ \Omega + 100\ \Omega = 440\ \Omega$

$I = \frac{V}{R} = \frac{5}{440}$

$I = 0.\overline{011}36$.

$I = 11.36 \times 10^{-3}$ A

$I = 11.36$ mAmps.

Voltage across $V_1 = I \cdot R_1$

$= 11.36 \times 330 = 3748$ mA

Voltage across $V_2 = I \cdot R_2$

$= 11.36$ mA $\times 100 = 1136$ mA