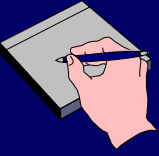
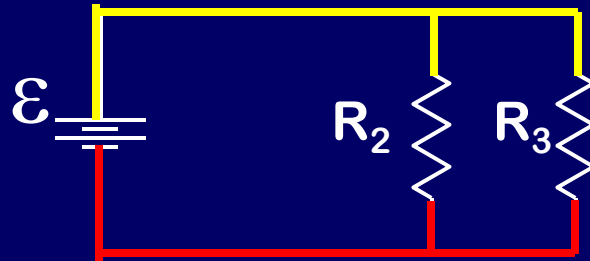


Example



Practice: Resistors in Parallel



Determine the current through the battery.

Let $\mathcal{E} = 60$ Volts, $R_2 = 20 \Omega$ and $R_3 = 30 \Omega$.

Simplify: R_2 and R_3 are in parallel

$$1/R_{23} = 1/R_2 + 1/R_3 \quad R_{23} = 12 \Omega$$

$$V_{23} = V_2 = V_3 = 60 \text{ Volts}$$

$$I_{23} = I_2 + I_3 = V_{23} / R_{23} = 5 \text{ Amps}$$

