
Ohm's Law Practice Examples - Answers

1) $R = 12 \Omega$, $E = 18 \text{ V}$, $I = \underline{E / R = 18 / 12 = 1.5 \text{ Amps}}$

2) $E = 24 \text{ V}$, $I = 4 \text{ A}$, $R = \underline{E / I = 24 / 4 = 6 \text{ Ohms}}$

3) $I = 12 \text{ A}$, $E = 60 \text{ V}$, $R = \underline{E / I = 60 / 12 = 5 \text{ Ohms}}$

4) $I = 16 \text{ A}$, $R = 12 \Omega$, $E = \underline{I \times R = 16 \times 12 = 192 \text{ Volts}}$

5) $R = 0.5 \Omega$, $E = 36 \text{ V}$, $I = \underline{E / R = 36 / 0.5 = 72 \text{ Amps}}$

6) $R = 1.5 \Omega$, $I = 4 \text{ A}$, $E = \underline{I \times R = 4 \times 1.5 = 6 \text{ Volts}}$