

Parallel Circuit Calculation Example

$$1/R_T = 1/R_1 + 1/R_2 + 1/R_3$$

$$1/R_T = \frac{1}{4} + \frac{1}{4} + \frac{1}{2}$$

$$1/R_T = .25 + .25 + .5$$

$$1/R_T = 1 \text{ Ohms}$$

$$I = V/R$$

$$I = 12V/1 \text{ Ohm}$$

$$\text{Answer: } I = 12 \text{ Amps}$$

