

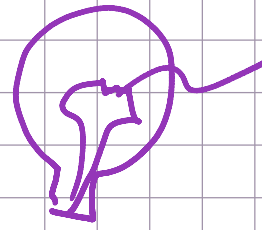
Example 1

Sunday, March 24, 2013
7:12 AM

Example 1 (Parallel Exercise Group B #6)



- 1) There is a current of 0.83A through a light bulb in a 120V circuit. What is the resistance of this light bulb?



$$I = .83A$$

$$V = 120V$$

$$R = ?$$

$$\frac{V}{I} = \frac{VR}{V}$$

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

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

$$R = \frac{120V}{.83A}$$

$$R = 144.6 \Omega$$

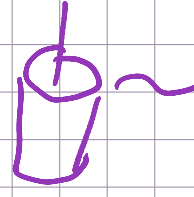
Example 2

Tuesday, March 26, 2013
3:14 PM

Example 2 (Parallel Exercise Group B #11)



2) An electrical motor draws a current of 11.5 A in a 240 V circuit. What is the power of this motor in Watts?


$$I = 11.5 \text{ A}$$
$$V = 240 \text{ V}$$

$$P = IV$$

$$P = (11.5 \text{ A})(240 \text{ V}) = 2760 \text{ W}$$