

Power Practice Problems

① $P = ?$
 $I = 0.5A$
 $V = 120V$

$$P = IV$$
$$= (0.5A)(120V)$$
$$= 60W$$

② $P = ?$
 $V = 120V$
 $I = 1.7A$

$$P = IV$$
$$= (1.7A)(120V)$$
$$= 204W$$

③ $P = ?$
 $V = 12V$
 $I = 2.5A$

$$P = IV$$
$$= (2.5A)(12V)$$
$$= 30W$$

④ $I = ?$
 $P = 1000W$
 $V = 120V$

$$P = IV$$
$$\frac{1000W}{120V} = \frac{I(120V)}{120V}$$
$$8.3A = I$$

⑤ $V = ?$
 $P = 600W$
 $I = 1.9A$

$$P = IV$$
$$\frac{600W}{1.9A} = \frac{(1.9A)V}{1.9A}$$
$$315.8V = V$$