

NOTE: Enter your data in yellow cells and results in blue cells will automatically update.

Ohm's Law

V = Voltage (Volts)

P = Power (Watts)

I = Current (Amps)

R = Resistance (Ohms)

FIND VOLTAGE

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

Power (P)	34.0	Watts
Current (I)	5.0	Amps
Voltage (V) =	6.80	Volts

$$V = I \times R$$

Current (I)	5.0	Amps
Resistance (R)	6.0	Ohms
Voltage (V) =	30.00	Volts

$$V = \sqrt{P \times R}$$

Power (P)	34.0	Watts
Resistance (R)	6.0	Ohms
Voltage (V) =	14.28	Volts

FIND CURRENT

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

Voltage (V)	34.0	Volts
Resistance (R)	5.0	Ohms
Current (I) =	6.80	Amps

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

Power (P)	5.0	Watts
Voltage (V)	6.0	Volts
Current (I) =	0.83	Amps

$$I = \sqrt{\frac{P}{R}}$$

Power (P)	5.0	Watts
Resistance (R)	5.0	Ohms
Current (I) =	1.00	Amps

FIND POWER

$$P = I^2 \times R$$

Current (I)	5.0	Amps
Resistance (R)	5.0	Ohms
Power (P) =	125.0	Watts

$$P = V \times I$$

Voltage (V)	5.0	Volts
Current (I)	6.0	Amps
Power (P) =	30.0	Watts

$$P = \frac{V^2}{R}$$

Voltage (V)	5.0	Volts
Resistance (R)	5.0	Ohms
Power (P) =	5.0	Watts

FIND RESISTANCE

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

Voltage (V)	34.0	Volts
Current (I)	5.0	Amps
Resistance (R) =	6.80	Ohms

$$R = \frac{V^2}{P}$$

Voltage (V)	5.0	Volts
Power (P)	6.0	Watts
Resistance (R) =	4.17	Ohms

$$R = \frac{P}{I^2}$$

Power (P)	5.0	Watts
Current (I)	5.0	Amps
Resistance (R) =	0.20	Ohms