

# Circuits

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## 1 Ohm's Law

$$V = IR \tag{1}$$

## 2 Watt's Law

$$P = IV \tag{2}$$

## 3 Kirchoff's Laws

### 3.1 Kirchoff's Current Law

For all lines in and out of a junction:

$$\sum I = 0 \tag{3}$$

### 3.2 Kirchoff's Voltage Law

Around any closed loop circuit:

$$\sum V = 0 \tag{4}$$