

Ström:

$$I = \frac{q}{\Delta t} \text{ (Enhet: A)}$$

Spänning:

$$U = \frac{W}{q} = ES \text{ (Enhet: V)}$$

Elektriska fältstyrka:

$$E = \frac{F}{q} = \frac{U}{s}$$

Resistans:

$$F = k \cdot \frac{q_1 \cdot q_2}{r^2} \text{ (Enhet: C; } k = 8.99 \cdot 10^9 \text{ Nm}^2/\text{C}^2)$$

Elektronens laddning:

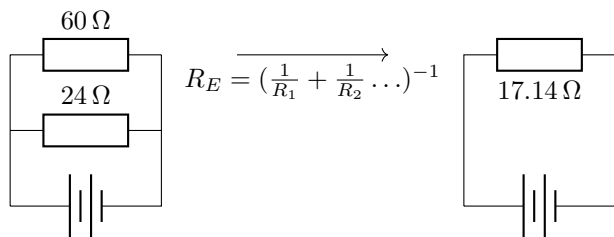
$$-1.602 \cdot 10^{-19} \text{ C}$$

Resistans:

$$R = \frac{U}{I} \text{ (Enhet: } \Omega)$$

Ohms lag:

$$U = R \cdot I$$

Ersättningsresistans:**Resistivitet:**

$$R = \rho \cdot \frac{l}{A} \text{ (Enhet: } \Omega\text{mm}^2/\text{m)}$$