

EX. 1

$$I = \frac{V}{R} = \frac{250}{10000} = 0,025 \text{ A} = 25 \text{ mA}$$

EX. 2

$$R = \frac{V}{I} = \frac{12}{5} = 2,4 \text{ k}\Omega$$

EX. 3

$$V = I \cdot R = 4 \cdot 11 = 44 \text{ V}$$

EX. 4

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

$$P = V \cdot I \Rightarrow I = \frac{P}{V} = \frac{40}{360} = 0,111 \text{ A}$$

$$R = \frac{V}{I} = \frac{360}{0,111} = 3240 \Omega$$

EX. 5

$$R_T = R_1 + R_2 = 2 + 4 = 6 \Omega$$

$$I = \frac{V}{R} = \frac{15}{6} = 2,5 \text{ A}$$

EX. 6

$$R_T = \frac{R_1 \cdot R_2}{R_1 + R_2} = \frac{2 \cdot 4}{2 + 4} = \frac{8}{6} = \frac{4}{3} \quad I = \frac{V}{R} = \frac{10}{\frac{4}{3}} = \frac{30}{4} = 7,5 \text{ A}$$