

Gabarito Lista 1

1) $Q = 12C$
 $\Delta t = 1 \text{ min} = 60s$

$$i = \frac{Q}{\Delta t}$$

$$i = \frac{12}{60}$$

$$i = 0,2A$$

$$\begin{array}{r} 12 \downarrow \overline{) 60} \\ 0,2 \end{array}$$

2) $R = 900 \Omega$
 $U = 360V$

$$U = R \cdot i$$
$$360 = 900 \cdot i$$
$$i = \frac{360}{900}$$

$$i = 0,4A$$

$$\begin{array}{r} 360 \downarrow \overline{) 900} \\ 0,4 \end{array}$$

3) $i = 0,55A$
 $\Delta t = 3 \text{ min} = 180s$

$$i = \frac{Q}{\Delta t}$$

$$0,55 = \frac{Q}{180}$$

$$Q = 0,55 \cdot 180$$

$$Q = 99C$$

$$\begin{array}{r} 180 \\ \times 0,55 \\ \hline 900 \\ 9000 \\ \hline 9900 \end{array}$$

4) $R = 250 \Omega$
 $i = 0,44A$
 $U = ?$

$$U = R \cdot i$$
$$U = 250 \cdot 0,44$$

$$U = 110V$$

$$\begin{array}{r} 250 \\ \times 0,44 \\ \hline 1000 \\ 10000 \\ \hline 11000 \end{array}$$

5) $R = 1000 \Omega$
 $U = 120V$
 $i = ?$

$$U = R \cdot i$$

$$120 = 1000 \cdot i$$

$$i = \frac{120}{1000}$$

$$\begin{array}{r} 120 \downarrow \overline{) 1000} \\ 0,12 \end{array}$$

$$i = 0,12A$$