

1.  $U = 220V$

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

$I = 0,3A$

$$R = \frac{220V}{0,3A} = 733,3 \approx \underline{\underline{730\Omega}}$$

2.  $R = 49\Omega$

$$U = R \cdot I$$

$I = 4,5A$

$$U = 49\Omega \cdot 4,5A = 220,5 \approx \underline{\underline{220V}}$$

3.  $U = 6,0V$

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

$I = 0,3A$

$$R = \frac{6,0V}{0,3A} = \underline{\underline{20\Omega}}$$

4.  $U = 230V$

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

$R = 50\Omega$

$$I = \frac{230V}{50\Omega} = \underline{\underline{4,6A}}$$

5.  $U = 3V$

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

$I = 0,0001A$

$$R = \frac{3V}{0,0001A} = 30000\Omega = \underline{\underline{30k\Omega}}$$

6.  $U = 110V$

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

$R = 220\Omega$

$$I = \frac{110V}{220\Omega} = 0,5A$$

7.  $U = 230V$

$$P = U \cdot I$$

$I = 1,4A$

$$P = 230V \cdot 1,4A = 322W \approx \underline{\underline{320W}}$$

8.  $U = 4 \cdot 1,5 = 6V$

$$P = U \cdot I$$

$I = 0,4A$

$$P = 6V \cdot 0,4A = \underline{\underline{2,4W}}$$

9.  $I = 2A$

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

$P = 12W$

$$U = \frac{12W}{2A} = \underline{\underline{6V}}$$

10.  $P = 2300W$

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

$U = 230V$

$$I = \frac{2300W}{230V} = \underline{\underline{10A}}$$