

1) Дано

$$t_1 = 100$$

$$k_1 = 1,8 \text{ мс}$$

$$t_2 = 500$$

$$k_2 = 2,9 \text{ мс}$$

$$Q = 10 \text{ В/с}^2$$

$$Q_1 = ?$$

Решение

$$Q = \sqrt{\frac{Q}{t}}$$

2) Дано

$$m = \text{const}$$

$$2-3; 4-1-4, \text{ отсюда}$$

$$V_2 = ?$$

$$V_4 = ?$$

Решение

$$\frac{QV}{T}$$

3) Дано

$$I_1 = \frac{I_2}{4}$$

$$I_1 = ?$$

$$C(x) = ?$$

Решение

Число

$$n = 1,5$$

(-)

$$R_1 = R_2$$

Формула

$$\frac{1}{F} = (n) \cdot \left(\frac{1}{R_1} + \frac{1}{R_2} \right)$$

$$\frac{1}{F} = (1,5) \cdot \left(\frac{1}{R} + \frac{1}{R} \right)$$

$$\frac{1}{F} = 0,5 \left(\frac{1}{R} + \frac{1}{R} \right)$$

$$\frac{1}{F} = \frac{1}{2} \frac{1}{R} + \frac{1}{2} \frac{1}{R}$$

$$\frac{1}{F} = 0,5R + 0,5R$$

$$\frac{1}{F} = R$$

$$F = \frac{1}{R}$$

