

3.

$$n = 100 \text{ мк}$$

$$h = 1 \text{ м}$$

$$a = 1,5 \text{ м/с}$$

$v = ?$

$$v = \frac{2v_0 R}{r}$$

$$\sqrt{a^2 + v_0^2} = \sqrt{3,25} =$$

$$\approx 1,8$$

$$h = \frac{g t^2}{2} = 9,8 \cdot 36$$

$$t = 0,6$$

$$v = \frac{2v_0 R}{r} = 8096 \text{ м/с}$$

$$v = 0$$

4. $m = 0,8 \text{ кг}$

$$F = mg = 8 \text{ Н}$$

$T_1 = 20^\circ \text{C}$ $T_2 = 50^\circ \text{C}$
 $T_1 \rightarrow T_2$

$$F = 0,5 \text{ кг} \cdot 10 \text{ м/с}^2$$