

6. Дано

$$v_0 = 15 \frac{m}{c}$$

$$a = -0,5 \frac{m}{c^2}$$

t - ?

Решение

$$v = v_0 + at$$

$$0 = 15 - 0,5t$$

$$0,5t = 15 \quad t = 30c$$

$$10. \underline{s = v_0 t + \frac{a t^2}{2}} = 6 \cdot 10 - \frac{0,5 \cdot 10^2}{2} = 60 - 25 = 35m$$

11. Дано

$$t = 2c$$

$$s = 18m$$

$$v_0 = v$$

$$v_k = 5 \cdot v$$

a - ? ; v\_0 - ?

$$s = \frac{v_0 + v_k}{2} t$$

$$18 = \frac{v + 5v}{2} \cdot 2$$

$$18 = 6v$$

$$\underline{v = 3 \frac{m}{c}}$$

Р. е

$$v_k = v_0 + at$$

$$15 = 3 + 0,2$$

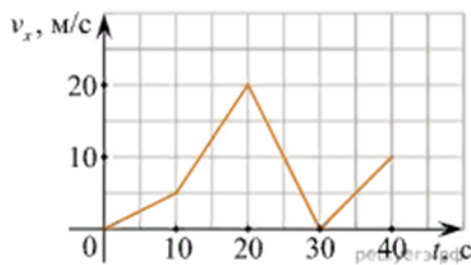
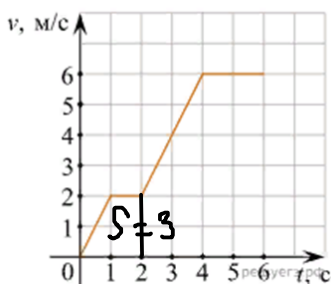
$$15 - 3 = 2a$$

$$12 = 2a$$

$$\underline{a = 6 \frac{m}{c^2}}$$

$$12. s = \underbrace{(4)}_{v_0} t + \underbrace{(1)}_{\frac{a}{2}} t^2 \quad a = 2 \frac{m}{c^2}$$

$$v = v_0 + at = 4 + 2 \cdot 2 = 8 \frac{m}{c}$$



$$|a| = a \quad |3| = 3$$

если  $a > 0$

$$|a| = -a \quad |-3| = 3$$

если  $a < 0$

$$a = \frac{\Delta v}{t} = \frac{v - v_0}{t} = \frac{5}{10} = 0,5 \frac{m}{c^2}$$

$$0 = -6 + 4t$$

$$6 = 4 \cdot t$$

$$t = 1,5 \text{ s}$$

7-ы  
Равном. гл.те.

$$1. v = \frac{s}{t}$$

$$2. v_{cp} = \frac{\Delta s}{\Delta t} = \frac{\text{весь путь}}{\text{всё время}}$$

$$3. x = x_0 + vt$$

Равноуск. гл.

$$4. a = \frac{\Delta v}{t} = \frac{v - v_0}{t} = \left[ \frac{m}{c^2} \right]$$

$$5. v = v_0 + at$$

$$6. s = \frac{v + v_0}{2} \cdot t \quad s = \frac{v^2 - v_0^2}{2a} \quad s = v_0 t + \frac{at^2}{2}$$

$$7. x = x_0 + v_0 t + \frac{at^2}{2}$$