

1) Дано  
 $a_1 = ?$   
 $a_2 = ?$   
 $v_{начальн} = ?$

Решение.  
 $v_0 t_2 = a_1 \frac{t_2^2}{2} = \frac{v_1 t_2}{2}$  25  
 $v_1 = 2v_0$

$S = \frac{a_1 t_1^2}{2} = \frac{v_0^2}{2}$  25

Вспомогательные параметры.

$t_3 - t_2 = \frac{v_1 - v_0}{a_2} = \frac{v_0}{a_2}$  25.

$S_2 = \frac{(v_1 + v_0) a_2 (t_3 - t_2)}{2} = 3v_0 \frac{(t_3 - t_2)}{2}$

$L = S_2 - S_1 = v_0 \frac{(t_3 - t_2)}{2} = \frac{v_0^2}{2a_2^2}$  25.

Ответ:  $S = \frac{L a_2}{2 a_1} = \frac{v_0^2}{2 a_2^2}$  25.  
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 105

2)  $L = 10 \text{ м}$   
 $v_0 = v_1$   
 $L = ?$

Решение  
 $AO = 10 \text{ м}, DO = 19 \text{ м}$   
 $\alpha = \arcsin \frac{BO}{AO} =$   
 $= \arcsin(0,95) \approx 72^\circ$

Ответ:  $72^\circ$  ✓ 105.

3)

4)

5) Решение:

II Зороч Шыному. 25

$ma_1 = mg - 2T$   
 $ma_2 = mg + 2T$   
 $ma_3 = mg - T$

25 Ответ:  $\frac{7g}{9}, \frac{11g}{9}, \frac{2g}{9}$  25  
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 95.

$T = \frac{mg}{9}$  25

295.

$$① h = T_1(V - U)$$

$$h = T_2(V + U)$$

$$V = \frac{T_1 + T_2}{T_1 + T_2} U = 3U$$

$$h = T_1(V - U) = 2 T_2 U = \underline{24 \text{ км}} \quad \text{65}$$

$$② v_{\text{см}} = \frac{P_2 V_0 + P_2 V}{2 p_{\text{см}}} = 0,8 \text{ м/с} \quad \text{35}$$

$$③ T_0 = \frac{V_1 T_1 - V_2 T_2}{V_2 - V_1} = 2 \text{ сек} \quad \text{35}$$

$$M = \frac{V_1 V_2 (T_1 - T_2)}{V_2 - V_1} \cdot \frac{35}{65}$$

$$④ L = L_1 + L_2 + L_3$$

$$2KL_1 = 3Mg + 2mg$$

$$2KL = 2Mg + 2mg$$

$$KL_3 = mg$$

$$2KL = 3Mg + 2mg + 2Mg + 2mg + 2mg = 5Mg + 6mg$$

$$m = \frac{2KL - 5Mg}{6g} \quad 105$$

$$⑤ M_g = M_{1g} + T_1$$

$$M_g = M_{2g} + T_2$$

$$M_{g2} = T_2 - 2T_2$$

$$T_1 = \frac{(M_1 - 2M_2)g}{3}$$

$$T_2 = \frac{(4M_1 - 5M_2)g}{3}$$

$$M = \frac{2}{3} (2M_1 - M_2)$$

105 / 355

1)  $v = 5 \text{ м/с}$   
 $M = 30$   
 $g = 10 \text{ м/с}^2$   
 $T_0 = 4 \text{ с}$   
 $T = ?$

Решение  
 $t_1 = -\frac{v}{g} + \sqrt{\frac{v^2}{g^2} + \frac{2H}{g}}$   
 $t_2 = \frac{v}{g} + \sqrt{\frac{v^2}{g^2} + \frac{2H - vT_0}{g}}$   
 $T = t_1 - t_2 = T_0 + \sqrt{\frac{v^2}{g^2} + \frac{2(H - vT_0)}{g}} - \sqrt{\frac{v^2}{g^2} + \frac{2H}{g}}$   
 Ответ:  $3 \text{ с}$

105

2)  $L = vt$

$t_2 = L/v = tv/v$

$v_1 = v - u$

$S_2 = v_2 t_2$

$v = \frac{S_1 - S_2}{t} = \frac{v^2 - u^2}{v}$  Ответ:  $v = \frac{v^2 - u^2}{v}$

$T = P \cdot S_1 \cdot P = P g h t$  35

5)  $T = P \cdot S_1 \cdot P = (h_{\text{max}} - M) = S_1 h$  25

$T_{\text{max}} = P g (S_1 (h + M) - S_2 M)$  25

Ответ: ↑

25  
 45  
 425

3)  $T_0 - T_1 + v m = 0$  25  $N = N_A$  25

$N = N_A \frac{cm(T_1 - T_0)}{rM} = 3,3 \cdot 10^{22}$  35

4)  $cpV(T_1 - T_A) + cp(V_0 - V)(T_1 - T_C) = 0$  35

$cpV(T_2 - T_A) + cp(V_0 - V)(T_2 - T_C) = 0$  25

Ответ:  $V = 2V_0 \frac{T_1 - T_2}{T}$  35

85