

1. _____: $\frac{9V_0^2}{4a}$ $\frac{3V_0}{2a}$.

_____:

$$V_{1x} = V_0 - at, \quad V_{2x} = -2V_0 - at.$$

$V_{1x} = V_{2x}$, $t^* = 3V_0/(2a)$.

$$x_1 - x_2 = 3V_0t - at^2$$

t^* , $(x_1 - x_2)_{\max} = \frac{9V_0^2}{4a}$.

2. _____: 40 .

_____:

$$45 = gt^2/2, \quad g = 10 \text{ / } ^2 - \quad 45 \quad t = 3 \text{ c.} \quad t$$

- 1 = 2 $g(t - 1)^2/2 = 20$, $45 - 20 = 25$. 50

40 .

3. _____: 40 000 . 0,6 .

_____:

() : 50 000 - 10 000 = 40 000 . (50 000) (10 000)

() , () , 2,4 .

0,6 .

4. _____: 600 / ³.

_____:

$$F_{A1} = mg + F_1$$

$$F_{A2} = mg + F_2.$$

$F_{A1} = F_{A2} -$, $m -$, $g -$, $F_1 = F_2 -$

$F_1 = 2F_2$ $F_{A2} = 0,8F_{A1}$,

$0,6F_{A1} = mg$. ρ

$\rho : \rho = 0,6\rho$.

5. _____: 1 . 15 .

_____:

1 3

2 1 .

1 .

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1-2