

7-\_\_\_\_\_

1

40 / . 120 ,  
60 / .

$$t_1 = \frac{S}{V_{\text{среднее}}} = \frac{1\text{км}}{4\text{км /час}} = 3 \text{ часа.}$$

$$t_2 = \frac{S}{V_{\text{движения}}} = \frac{1\text{км}}{6\text{км /час}} = 2 \text{ часа.}$$

$$t = t_1 - t_2 = 3\text{часа} - 2 \text{ часа} = 1 \text{ час.}$$

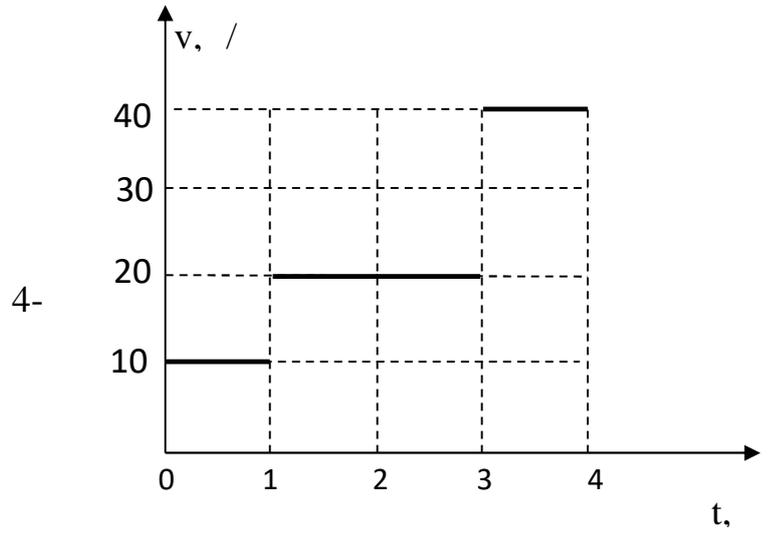
..... 3

.....6

..... 1 .

2

( )



4-

4 .

$$S = 10 / (1 - 0) + 20 / (3 - 1) + 40 / (4 - 3) = 90 .$$

$$V_{ep} = \frac{S}{t} = \frac{90}{4} = 22,5 \text{ M/c.}$$

4- ..... 1  
 ..... 6  
 ..... 3

, 7800 .  $10$  ,  
 $g = 10 /$  ,

$$V = a^3 = (10 \cdot 10^{-2})^3 = 10^{-3} \text{ }^3.$$

$$S = a^2 = (10 \cdot 10^{-2})^2 = 10^{-2} \text{ }^2.$$

$$P = \frac{F}{S},$$

F – , , . . .

$$F = gm.$$

$$m = V \cdot$$

$$P = \frac{g}{S},$$

$$\dots P = \frac{\rho g}{S},$$

$$\rho = \frac{PS}{g} = \frac{7 \cdot 10^{-2}}{1 \cdot 10^{-3}} = 7800 / \text{ }^3.$$

..... 1

..... 1

..... 1

, .... 2

..... 1

..... 3

..... 1

58,5 %),  $\rho_3 = 19310 \text{ кг/м}^3$ ,  $\rho_c = 10500 \text{ кг/м}^3$ .

$$V = V_3 + V_c,$$

$$\rho_{\text{сплава}} = \frac{m_{\text{сплава}}}{V_3 + V_c}.$$

$$m = 0,585m_{\text{сплава}},$$

$$m = \rho_3 V_3.$$

$$V_3 = \frac{0,5 m_{\text{сплава}}}{\rho_3},$$

$$V_c = \frac{0,4 m_{\text{сплава}}}{\rho_c}.$$

$$\rho_{\text{сплава}} = \frac{m_{\text{сплава}}}{\frac{0,5 m_{\text{сплава}}}{\rho_3} + \frac{0,4 m_{\text{сплава}}}{\rho_c}},$$

$$\rho_{\text{сплава}} = \frac{\rho \rho_3}{0,5 \rho + 0,4 \rho_3} = \frac{1 \cdot 1}{0,5 \cdot 1 + 0,4 \cdot 1} = \frac{2}{0,5+0,4} = \frac{2}{0,9} = 2222,2 \text{ кг/м}^3.$$

.....1

.....1

..... 1

.....	1
.....	2
.....	2
.....	1
.....	1