

№ 1

Б-кі 1

ХЖМ ш:

$$\cos \alpha = \cos 45^\circ = 0,866$$

$$L = h \quad \cos 45^\circ = 0,866$$

$$\sigma_1 = 10 \text{ м/с}$$

$$h_1 = \frac{\sigma_1 \cos \alpha}{2} \quad h_2 = \frac{\sigma_2 \cos \alpha}{2} \quad \sigma_2 = \frac{h_2 \cdot 2}{\cos \alpha}$$

$$L_2 \approx L_1$$

$$h_1 = \frac{10 \cdot 0,866}{2} = 4,33 \text{ м}; \quad h_2 = 3h_1 = 3 \cdot 4,33 = 12,99 \text{ м}$$

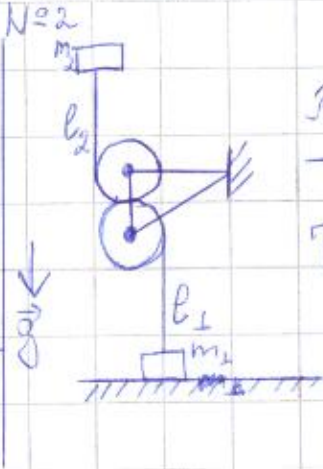
$$\sigma_2 = ?; L_1 = ?$$

$$\sigma_2 = \frac{12,99 \cdot 2}{0,866} = 30 \text{ м/с}$$

$$\text{Жауабы: } 30 \text{ м/с}$$

№2

m_1
 l_1
 m_2
 l_2
 $t = ?$



$$a = m l$$

$$T = m_1 g$$

$$T = 2 J \frac{l}{l^3}$$

$$T = 2 \cdot 3,14 \sqrt{\frac{l}{12}} \approx 6,28 \sqrt{\frac{l}{10}} = \sqrt{39,4384 \cdot \frac{l}{10}} = \sqrt{3,94384 \cdot l} = 1,9859103 \sqrt{l}$$

№3

Б-ші

хәтте

ш:

$$U_0 = 12 \text{ В}$$

$$R = \frac{U}{I}$$

$$\Delta I = 3 \text{ мА}$$

$$= 0,003 \text{ А}$$

$$R = \frac{12}{0,003} = 4000 \text{ Ом}$$

R-?

$$\text{Нәтиже: } R = 4000 \text{ Ом}$$

№ 4

Ә-ші

ш:

$n = 1,5$

$R_1 = R_2$

$F = ?$

$$\frac{1}{F} \leq (n-1) \left(\frac{1}{R_1} + \frac{1}{R_2} \right); R = R_1 = R_2 \quad 0,5 \leq \frac{1}{2}$$

$$\frac{1}{F} \leq (1,5-1) \left(\frac{1}{R} + \frac{1}{R} \right) = 0,5 \cdot 2 \frac{1}{R} = \frac{1}{R}$$

$$\frac{1}{F} \leq \frac{1}{R} \Rightarrow F \leq R$$

$$N \leq \Delta n; F \leq R$$