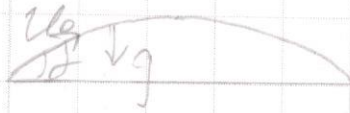


Бер.
 1. $\alpha_1 = 30^\circ$
 $v_1 = 24 \text{ м/с}$
 $\alpha_2 = 60^\circ$
 $v_2 = 32 \text{ м/с}$
 $t = 1,5 \text{ с}$
 $S = ?$

Шешуі



$$v_1 = \frac{v_0 \sin \alpha_1}{g} = \frac{24 \cdot \frac{1}{2}}{10} = 1,2 \text{ м/с}$$

$$v_2 = \frac{v_0 \sin \alpha_2}{g} = \frac{32 \cdot \frac{\sqrt{3}}{2}}{10} = 2,72 \text{ м/с}$$

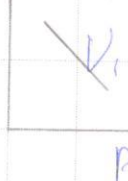
$$S = v t$$

$$S = (1,2 + 2,72) \cdot 1,5 = 5,88 \text{ м}$$

2 Бер.
 p_0, v_0, T_0
 $p_1 = \frac{p_0}{4}$

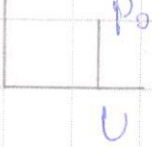
Шешуі

1. T



$$\frac{p_0}{4 T_0} = v_1 = \text{const.}$$

2. T



$$\frac{4 v_1}{T_1} = 4 p_0 = \text{const.}$$