

1. Дано: | Решение:

$$\angle \alpha = 30^\circ$$

$$V_1 = 24 \text{ м/с}$$

$$t = 1,5 \text{ с}$$

$$\angle \beta = 60^\circ$$

$$V_2 = 32 \text{ м/с}$$

$$S_1 = V_1 \cdot t \cdot \cos \alpha$$

$$S_1 = 24 \cdot 1,5 \cdot \frac{\sqrt{3}}{2}$$

$$S_1 = 18\sqrt{3} \approx 31,17$$

$$S_2 = V_2 \cdot t \cdot \cos \beta$$

$$S_2 = 32 \cdot 1,5 \cdot \frac{1}{2}$$

$$S_2 = 24 \text{ м}$$

$$S_{\text{общ}} = S_1 + S_2 = 31,17 + 24$$

$$S_{\text{общ}} = 55,17 \text{ м}$$

Найти:

$S_{\text{общ}}$

$$4. T = 2\pi \sqrt{\frac{x}{g}}$$

$$2\pi = \text{const}$$

$$L = \text{const}$$

$$T = \sqrt{\frac{1}{g}}$$

$$T_1 = \sqrt{\frac{1}{9,78}} = 0,3197647397 \text{ с}$$

$$T_2 = \sqrt{\frac{1}{9,83}} = 0,3189504661 \text{ с}$$

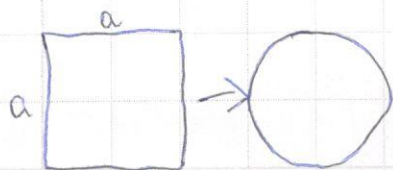
$$T_1 - T_2 = 8,142736 \cdot 10^{-4}$$

3. Дано:

$$a = 3 \text{ м}$$

$$B = 1 \text{ Тл}$$

$$R = 10 \text{ м}$$



Реш.:

$$P_{\square} = 3 \cdot 4 = 12 \text{ м}$$

$$P_o = P_{\square}$$

$$P_o = 12 \text{ м}$$