

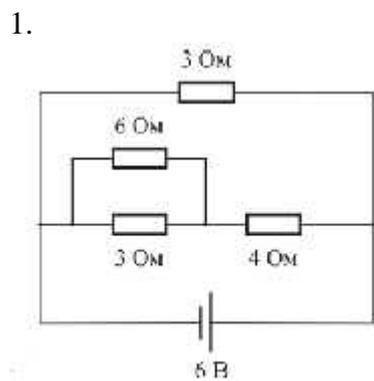
1.

1. t_1 $h/(gt_1^2)$ $h = v_0^2 / (2g)$ v_0
2. , $3v_0/4$.
3. t_2 ,
4. : $v = v_0 - gt_2$. (
5.) . $t = t_1 + 2t_2 = 1,38 \text{ c}$

2.

1. , ,
2. $q = \frac{Q_1}{t_1} = \frac{cm\Delta T_1}{t_1}$.
3. $t_2 = \frac{Q_2}{q}$.
4. $t_3 = \frac{Q_3}{q} = \frac{\lambda m}{q}$.
5. $t_1 + t_2 + t_3 = 120 \text{ мин} = 2 \text{ ч}$.

3.



2. , $R = 2$.

3.

$I=3$.

4.

1.

2.

3.

4.

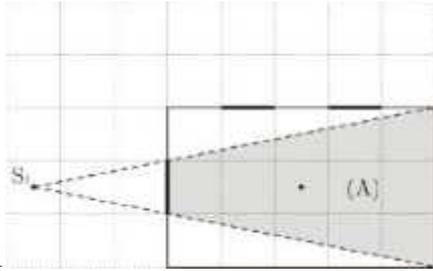
5.

6.

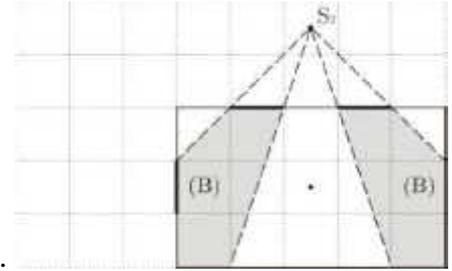
1 (),
 2 (B),
 3 (),
 (), (), ().

S_1 , S_2 , S_3 .
 1 ((D)),

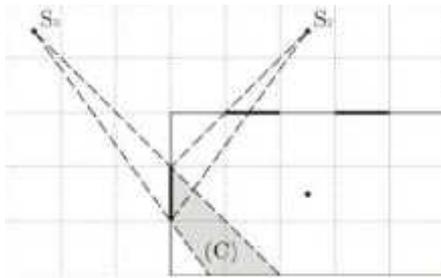
4



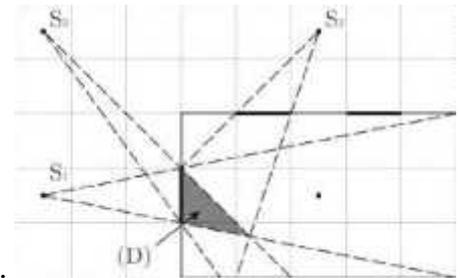
1.



2.



3.



4.

7.

S_1

1.

8.

3

(D),

5.

1.

$\mu = \text{tg}\alpha$,

2.

$$F_{\text{тр}} = F_{\text{тяги}}$$

3.

$$F_{\text{тр}} = \mu mg,$$

$$m = \frac{F_{\text{тяги}}}{\mu g}$$