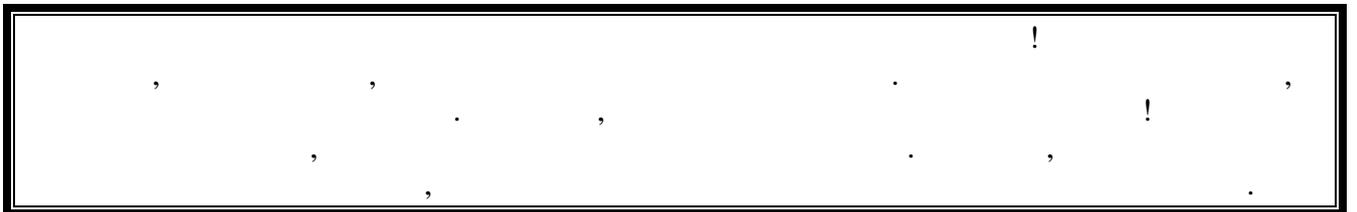




2021 .
(III)

9 _____.

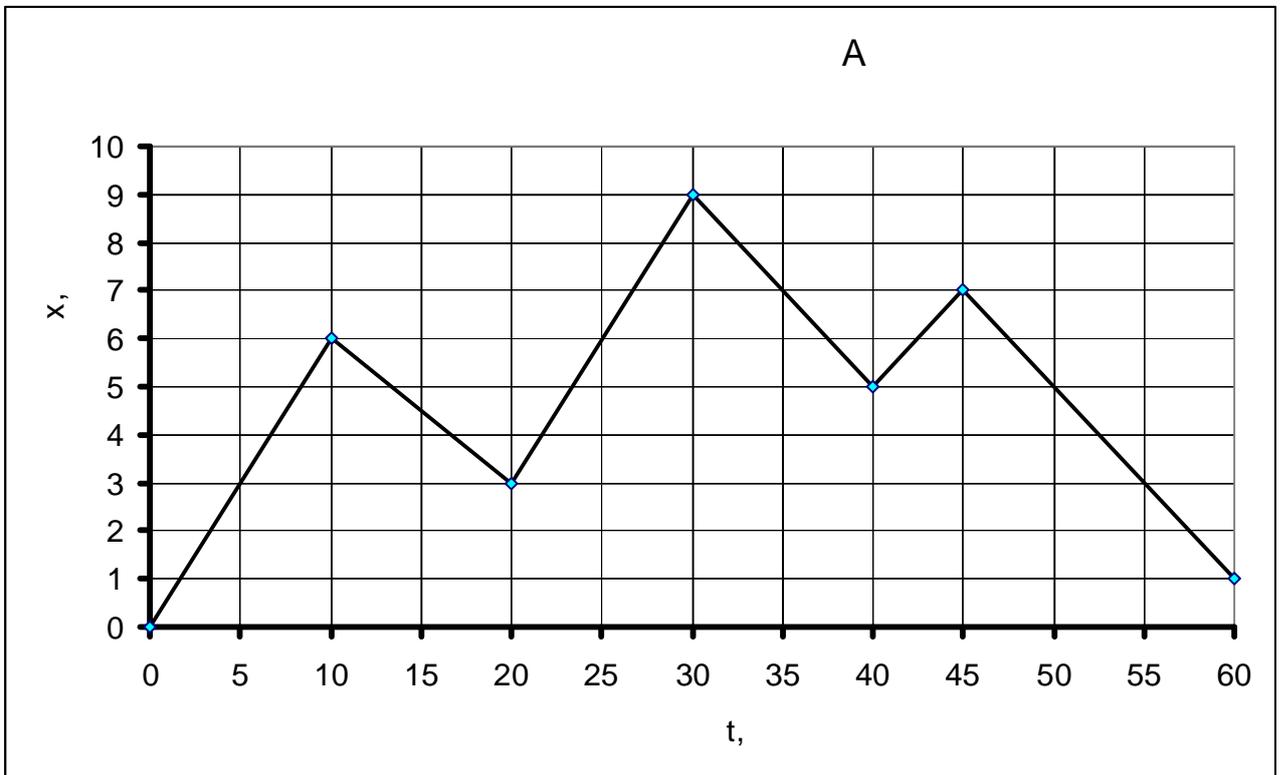
- 1. _____ .
- 2. _____ , _____ .
- 3. _____ !
- 3. _____ .
- 4. _____ , _____ .
- 5. _____ , _____ .



- _____ :
- _____ (1 _____);
- _____ 3 _____ (5 _____);
- _____ 9-3 (1 _____)

9-1.

...
 : A (...)
 B (...)
 1 = 3,0 . B
 A, B 3 B,
 1. (...).
 A (...)
 B $x_B(0) = 0$.

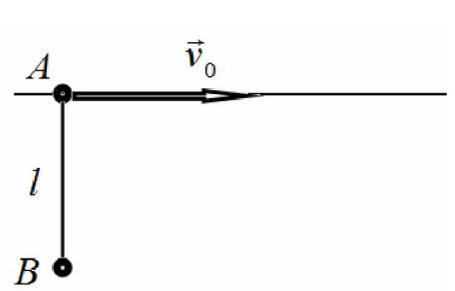


B.

1.1	B.
1.2	A B 60

2.

A .
 $v_0 = 6,0$ — .
 $l = 3,0$
 $t = 0$ B
 A . , B .



2.1	B .
2.2	B .
2.3	B ?

3.

B
 \vec{F}_0
 $\vec{F} = -\beta \vec{v}$
 \vec{v} \vec{F}_0
 A $R = 2l = 6,0$
 $v_0 = 6,0$ — .

3.1	B ,
3.2	B ?

9.2.

1.

U_0 ,

-

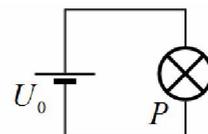
;

-

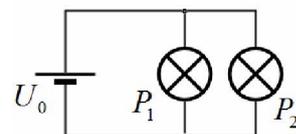
()

;

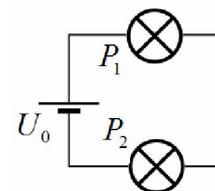
1.1 $P = 100$, $U_0 = 220$.
?



1.2 $U_0 = 220$) $P_1 = 100$ ($P_2 = 60$)
 $U_0 = 220$.
?



1.3 ?

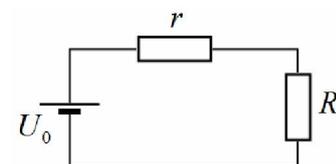


2.

U_0 ,
 r)

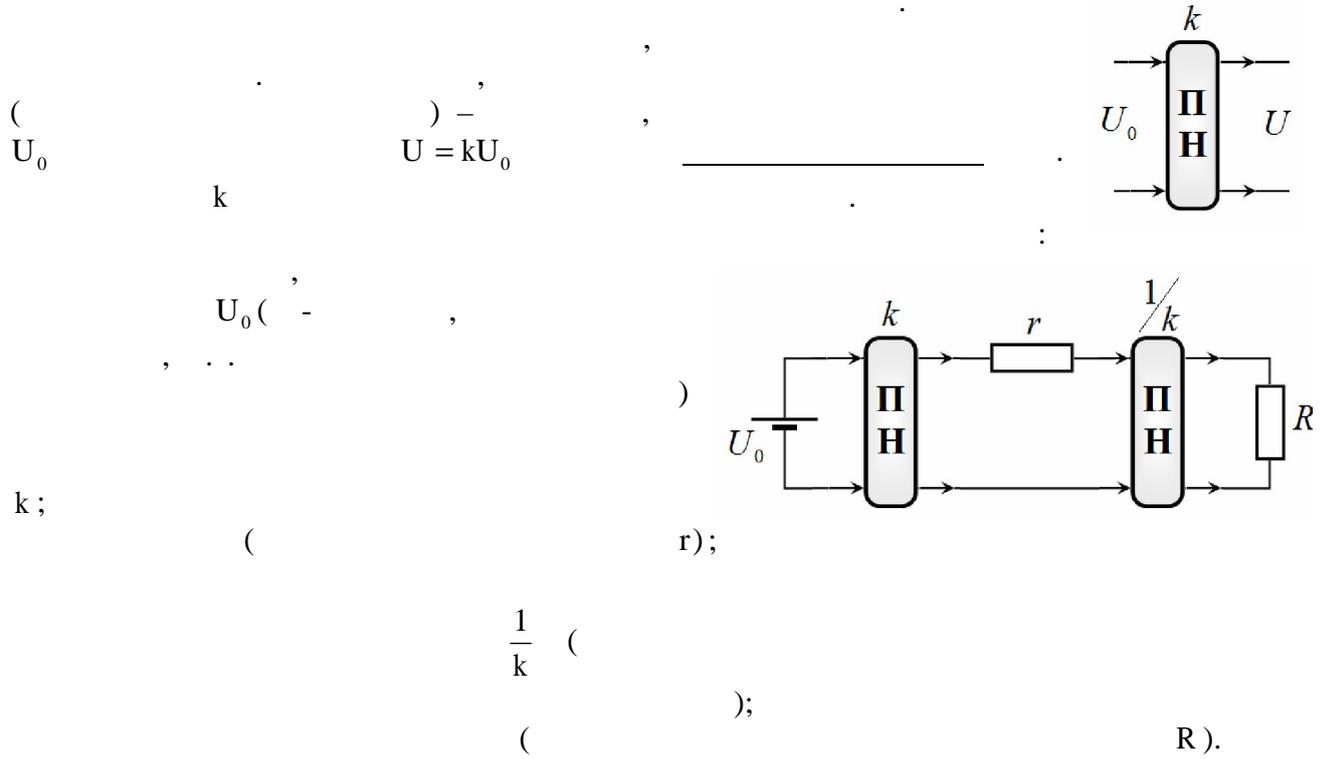
(

R.



2.1
2.2 (,
),
2.3 $U_0 = 220$ 5,0
 $d = 1,0$.
 $P = 1,0$.
 $\rho = 1,7 \cdot 10^{-8}$.

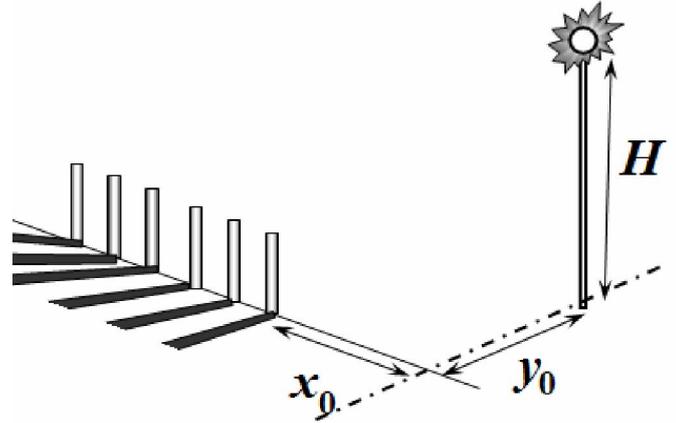
3.



- 3.1
- 3.2
- 3.3
- 3.4
- k = 1000) . 2.3.

9-3.

$h = 4,5$



. 1.

x_0, y_0
H.

9.1

!

