

II ( )

9

-4 .

100 -

10-

10.

10 - 15

),

1

$v ( \dots 1),$   
 $-v_2 = 10 / .$

$v_1 = 2 / ,$

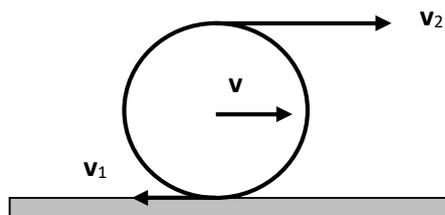


Рис.1

$v$   
 $-v$

$$v_2 = v + v$$

$$v_1 = v - v$$

, :

$$v_2 - v_1 = 2v \quad v = \frac{v_2 - v_1}{2} = 4 \text{ / .}$$

**-60.**

40 .

15 ,

2

$t = -8^\circ$  .

$t = 20^\circ\text{C}$

= 100

1,67 / .

,

$Q_1$

$Q_2$ ,

$$Q_1 = c m t_1 = 33,4 \quad ( t_1 = 20^\circ\text{C} )$$

$$Q_2 = c m t_2 = 1,68 \quad ( t_2 = 8^\circ\text{C} )$$

$$Q_2 < Q_1,$$

$$Q_3 = m = 3,3 \cdot 10^5 \cdot 0,1 = 3,3 \cdot 10^4 = 33 \text{ .}$$

$$, \quad \frac{Q_1 - Q_2}{0^\circ\text{C}},$$

**- 100.**

80 .

40 .

30 ,

3

( .2),

( A B)

$U = 84$  .  
 $; R_2 = R_6 = R_7 = 6 ; R_4 = 24 ; R_3 = 3$  .

$: R_1 = R_5 = R_8 = 12$

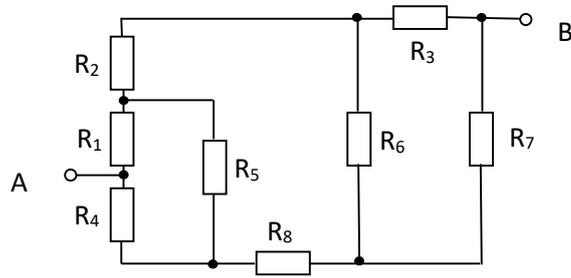
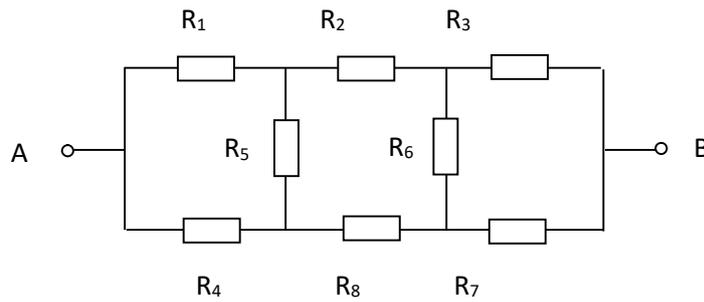


Рис.2

:



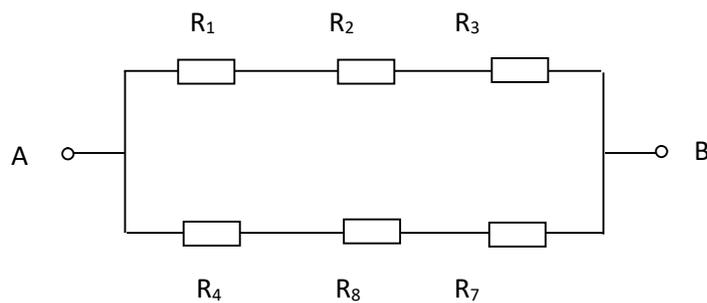
$$R_1 : R_2 : R_3 = 12 : 6 : 3 = 4 : 2 : 1,$$

$$R_4 : R_8 : R_7 = 24 : 12 : 6 = 4 : 2 : 1.$$

$R_5$

$R_6$  .

:



:

$$I = \frac{U}{R_4 + R_8 + R_7} = \frac{84 B}{(24 + 12 + 6)} = 2 .$$

- 100.

80

40

30

4

$R$  ( .3).

$g$ .

$R$   $4 R^3/3$ .

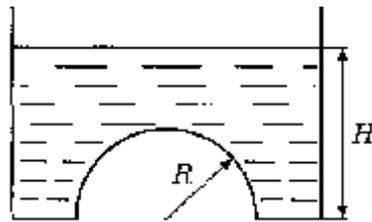


Рис.3

$$F = mg .$$

$m$

$V$

$$V = f R^2 H - \frac{2}{3} f R^3 .$$

$$F = f \dots g R^2 \left( H - \frac{2}{3} R \right) .$$

- 60.

50

30

15