

II ( )

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-3 20

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,  $\alpha$ ,  $m_1$ ,  $m_2$ ,  $\mu_1$ ,  $\mu_2$ , ?

,  $a_1$ ,  $a_2$ ,  $a_1$ ,  $a_2 > a_1$ .

,  $F_1 = > F_2$  -  
,  $N_1 = > N_2$  -

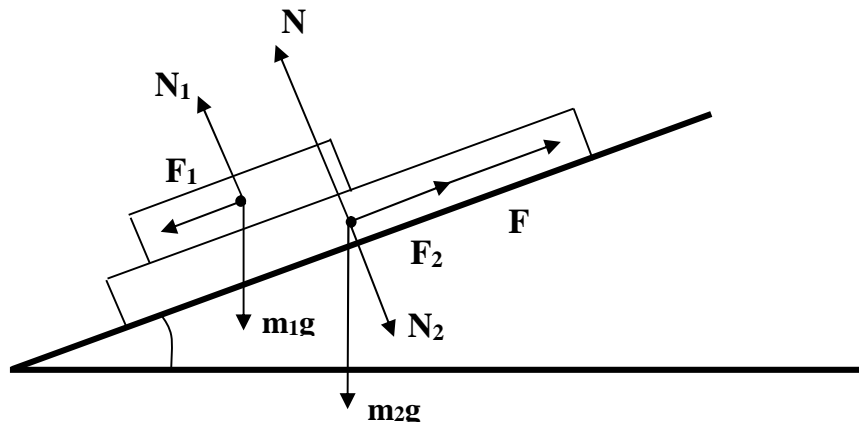
N -

$m_2 g \sin\alpha - F - F_2 = m_2 a_2$ ,  
 $m_1 g \sin\alpha + F_2 = m_1 a_1$ ,  $F_1 = F_2$ .

$a_2 < g \sin\alpha$ ,  $a_1 > g \sin\alpha$ ,

..  $a_2 < a_1$ .

,  $a_2 > a_1$ , ,  $a_2 < a_1$ .



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- 80.

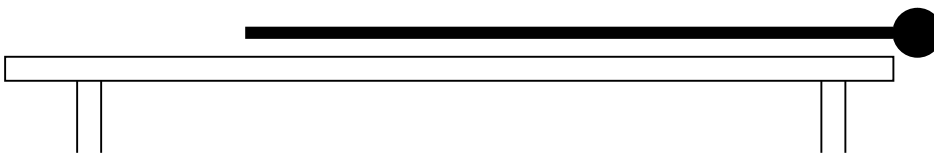
?

$m_1$   
( . ) .

$L$   $m_2$ ,

$L, m_2$

$m_1$



$m_1 g L,$   
 $L/2).$

$m_2 g L / 2$  (

:

$$g L (m_1 + m_2/2) = (m_1 + m_2)v^2/2$$

$$v^2 = 2 g L(m_1 + m_2/2)/(m_1 + m_2)$$

$$V = \sqrt{\frac{2 g L \left( m_1 + \frac{m_2}{2} \right)}{m_1 + m_2}}$$

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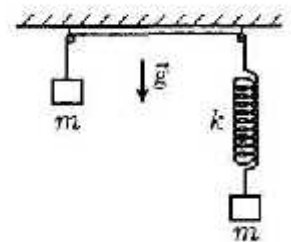
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3

- 80.

$k.$

$a,$



2k,

/2

$$\%_0 = \sqrt{\frac{2k}{m}}$$

- a /2,

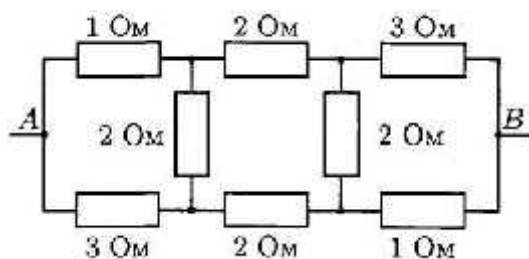
$$V_{\max} = a \sqrt{\frac{k}{2m}}$$

- 100.

80

30

4



2

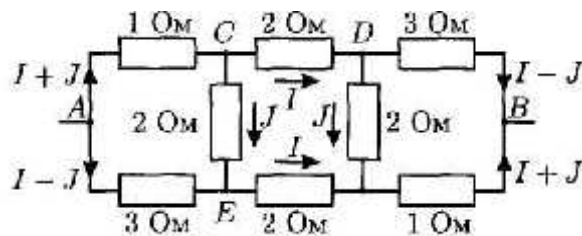
(

)

2

(

)



A B  $U_0$ .

ACE

$$(I + J) \cdot 1 + 2 \cdot J = 3 \cdot (I - J)$$

ACDB

$$(I + J) \cdot 1 + 2 \cdot I + 3 \cdot (I - J) = U_0$$

$$J = \frac{I}{3}, \quad I = \frac{3U_0}{16}$$

$$R = \frac{U_0}{2I} = \frac{8}{3}$$

- 80.

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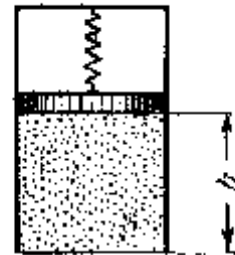
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( . . ) .

T<sub>1</sub>?

h<sub>1</sub>



$$F = kh.$$

$$P = kh/S, \quad V = hS.$$

1

$$P_1 = kh_1/S, \quad V_1 = h_1S.$$

$$\frac{pV}{T} = \frac{p_1V_1}{T_1}$$

$$\frac{khS}{ST} = \frac{kh_1S}{ST_1},$$

$$h_l = h\sqrt{\frac{T_1}{T}}$$

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- 60.

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