, 5,

 $F=\frac{m}{t}\sqrt{2gh}.$ 

 $V = \frac{Ft}{m}$ , F-

**10** 

**- 50.** 

1.

10/2 = 5c

$$\frac{v^2}{2a} = \frac{100}{4} = 25 \text{ M}.$$

 $9\cdot 5=45\ \text{M}\,,\qquad . \ .$ 

10 /

2.

h < L,

 $\frac{mv^2}{2} = mgh.$ 

L < h < 2L,

 $\begin{cases} mv_0^2 / L = mg(h - L) / L \\ mv^2 / 2 = mv_0^2 / 2 + mgh \end{cases}$ 

$$F = \frac{m}{t} \sqrt{(3h - L)g}.$$

$$, h = 2L,$$

,

$$\begin{cases} mv^2 / 2 = mv_B^2 / 2 + 2mgL \\ mv_B^2 / L \ge mg \end{cases}$$

 $F \geq \frac{m}{t}\sqrt{5gl}$ 

**3.** ,

 $m_1$ ).

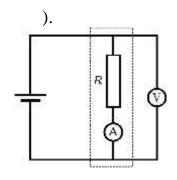
$$a = \frac{F}{m_1 + m_2} = \frac{T}{m_2},$$
  $T = \frac{m_2}{m_1 + m_2} F = 9 H.$ 

1. **1?** 1

$$R_1 = \frac{U_1}{I_1}, \qquad (1)$$

$$U_1 - \qquad , \quad I_1 - \qquad .$$

· , ,



 $U_R$  U :  $U_1 = U_R + U$  . (2) (1) :

 $V_{_{\rm B}}$  ,

$$R_1 = \frac{U_R + U_A}{I_1} = \frac{U_R}{I_1} + \frac{U_A}{I_1} = R + R_A,$$
 (2)

2.

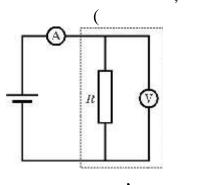
**2?** 1

$$R_2 = \frac{U_2}{I_2}, \qquad (3)$$

$$U_2 - \qquad , \quad I_2 - \cdots$$

•

).



 $I_{
m 2}-I_{
m R}$   $I_{
m V}$ :

 $I_2 = I_R + I_V. (4)$ 

(3)

$$R_2 = \frac{U_2}{I_R + I_V}. ag{5}$$

 $\frac{1}{R_2} = \frac{I_R + I_V}{U_2} = \frac{I_R}{U_2} + \frac{I_V}{U_2} = \frac{1}{R} + \frac{1}{R_V}.$ 

$$R_2 = R \frac{R_V}{R + R_V}.$$
 (6)

3.

$$R_1 = R + R$$
 , ,  $R_1 > R$ .

$$\Delta R_1 = R_1 - R = R \quad . \tag{7}$$

$$\Delta R_1 = 1 \qquad . \tag{8}$$

$$R_{2} = R \frac{R_{V}}{R + R_{V}},$$

$$R_{2} < R \quad ($$

$$\Delta R_{2} = R - R_{2} = R \frac{R}{R + R_{V}}. \quad (9)$$

$$\Delta R_{2} = 0.01 \quad (10)$$

$$2 \quad 10$$

$$2 \quad 1.$$

$$2 \quad 1.$$

$$2 \quad 5.$$

$$E_{p} = \frac{k(\Delta l)^{2}}{2}. \quad (1)$$

$$k \Delta l_{0} = mg, \qquad -$$

$$m.$$

$$k = mg / \Delta l_{0}.$$

$$k \quad (1), \qquad : E_{p} = \frac{mg(\Delta l)^{2}}{2\Delta lo}, \quad \Delta l_{0},$$

•