9

1. (10

( ),

3)  $_3 = _2$   $V_{x3} = 0$  /

 $_{3}=2$  ;  $V_{x4}=-1$  /;  $_{4}=2$  -1 / 1 =1 . 4)  $_{4} = _{3} + V_{x4}t;$ 

3 **★**x,  $\mathbf{x}_2$  $x_3$ 2 1 •  $\mathbf{x}_1$ 0 2 1 3 4

 $y = y_o + V_y t$ 

1)  $y_0 = 1$ ;  $y_1 = 0$  /;  $y_1 = y_0 = 1$ 

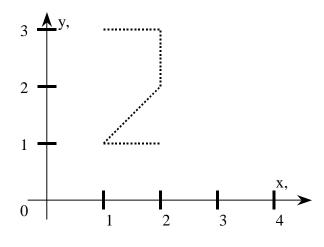
2)  $y_2 = y_1 + V_{y2}t$ 

 $y_1=1$   $V_{y2}=1$  /  $y_2=3$   $V_{y3}=0$  /  $y_3=3$ 3)  $y_3 = y_2 + V_{y3}t$ 

3 **★**y, 2 • 1  $y_1$ 0 2 3 1

; 1 1; 2 2;

3 3; 4 4.



3. (10

r.

$$I = \frac{U}{R} = \frac{U}{R + \frac{Rr}{R + r}} = \frac{U(R + r)}{R(R + 2r)}$$
(1)  

$$(1) \qquad U = IR + U_1 \quad (2).$$

$$(1) \qquad (2), \qquad \vdots \qquad \frac{U - U_1}{R} = \frac{U(R + r)}{R(R + 2r)} \qquad (3),$$

$$r = R \qquad U_1 \qquad (4)$$

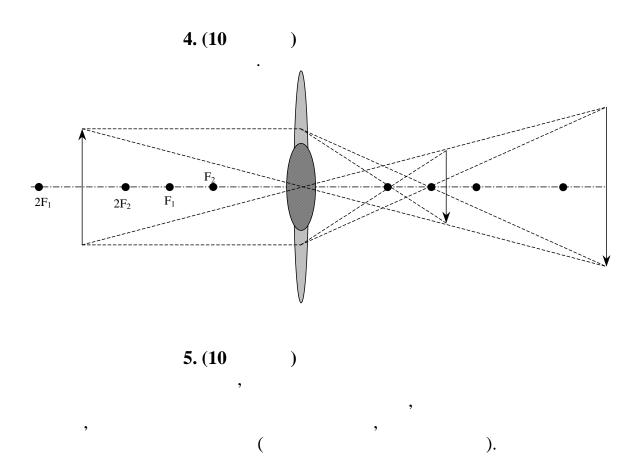
$$R = \frac{1}{R(R+2r)}$$

 $r = R \frac{U_1}{U - 2U_1} \qquad (4).$ 

10 (n = 10),

 $(\mathbf{r}^1 = \frac{r}{10}) .$ (3):

$$U_1^1 = \frac{UU_1}{nU - 2(n-1)U_1}.$$
 ( , , ) : 
$$U_1^1 = 47,62$$



**- 45.**