



2020

(III)

9.

1.

2.

3.

4.

5.

6.

7.



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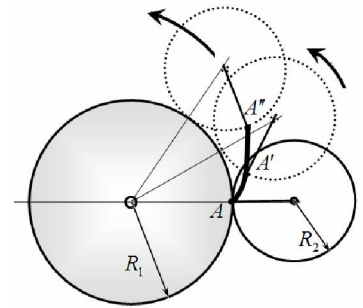
- (1 .);
- (11 .).

9-1.

!

_____:

1
R₂
R₁
A, A', A''



(.2).

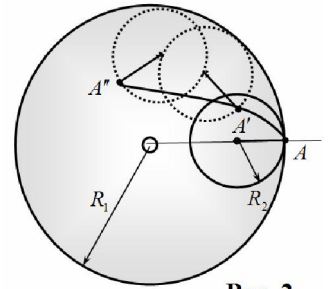


Рис. 2

(
)—
(
) + (
)—

$$\frac{R_2}{R_1}$$

(
)
:
48
(
)
« »
()

1.

! .

,

), (

,

:

;

!

1 , 48 .

n - ,

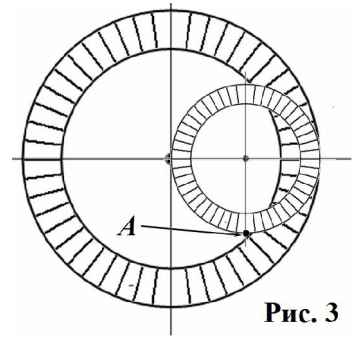
| | |
|--------|---------------------|
| 1.1 | L_0 . |
| 1.2 | L_n n - (n = 3), |
| 1.3 | n ϵ_n , |
| 1.4 | n n - 5%. |
| 1.5 | n () , |
| . 1.1. | |

5%.

!

2. ()

A . 3.

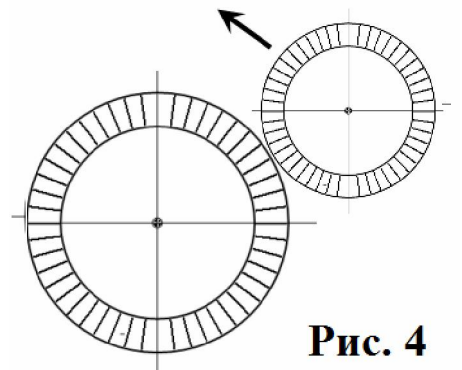


2.1 A. A, .
?

2.2 , ,
() .

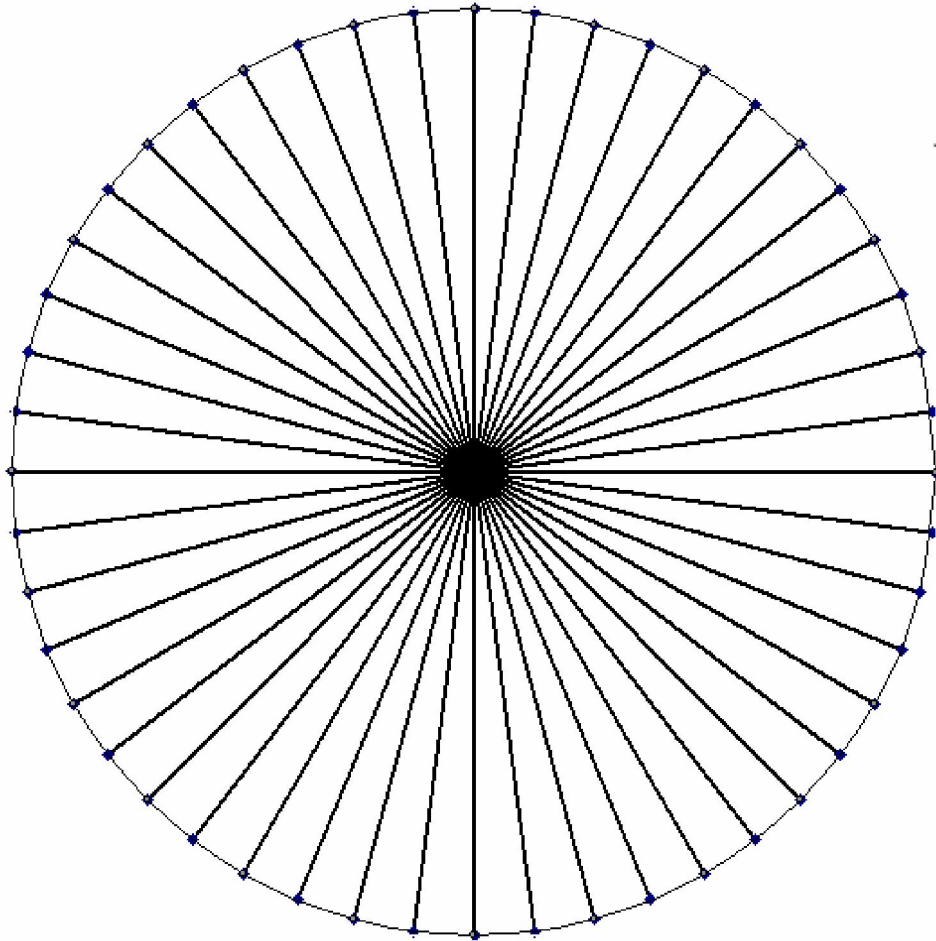
3. ()

() (.4).



3.1 , ,
() .

1.



1.1

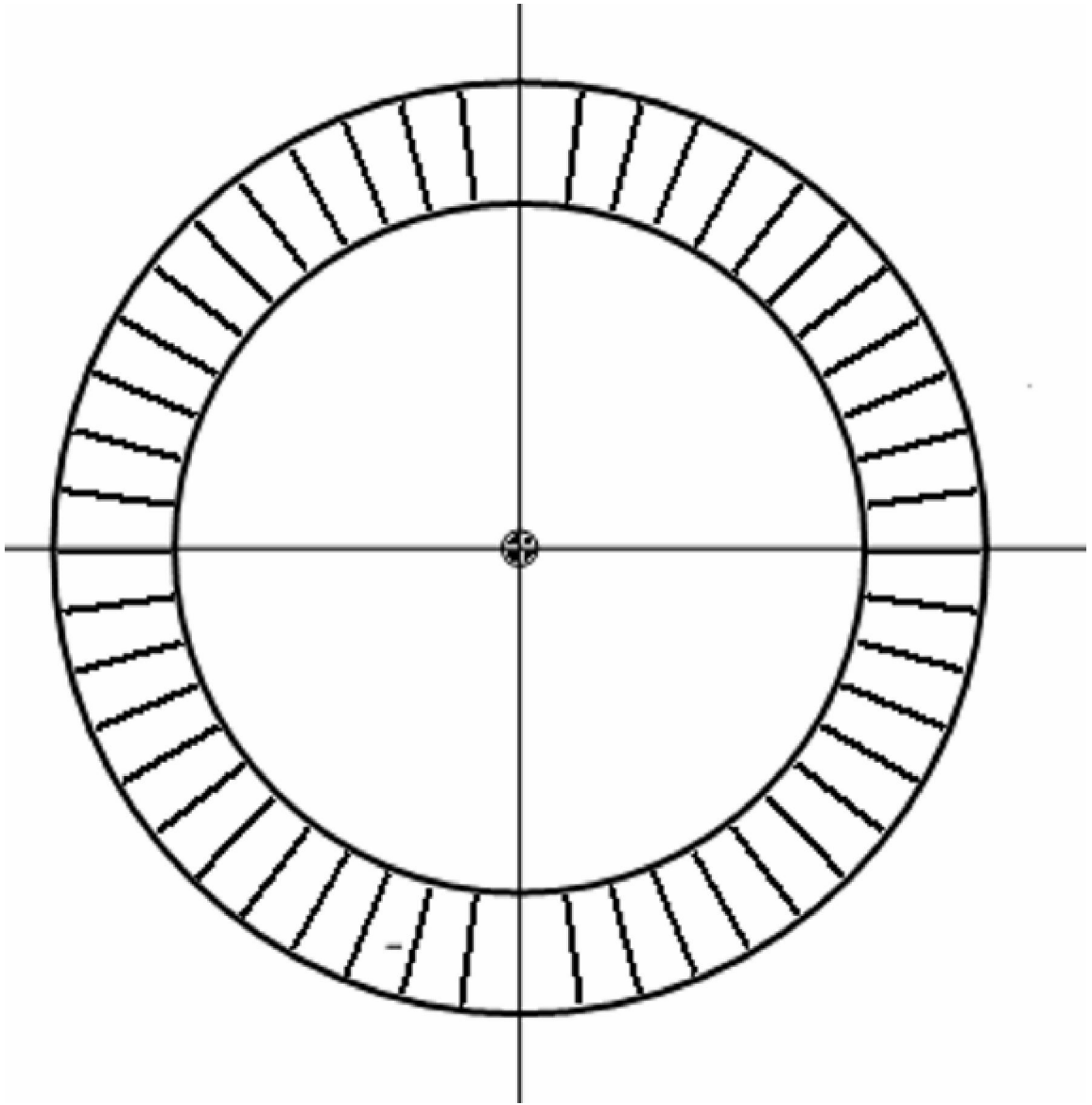
| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |

$L_0 =$

1.2

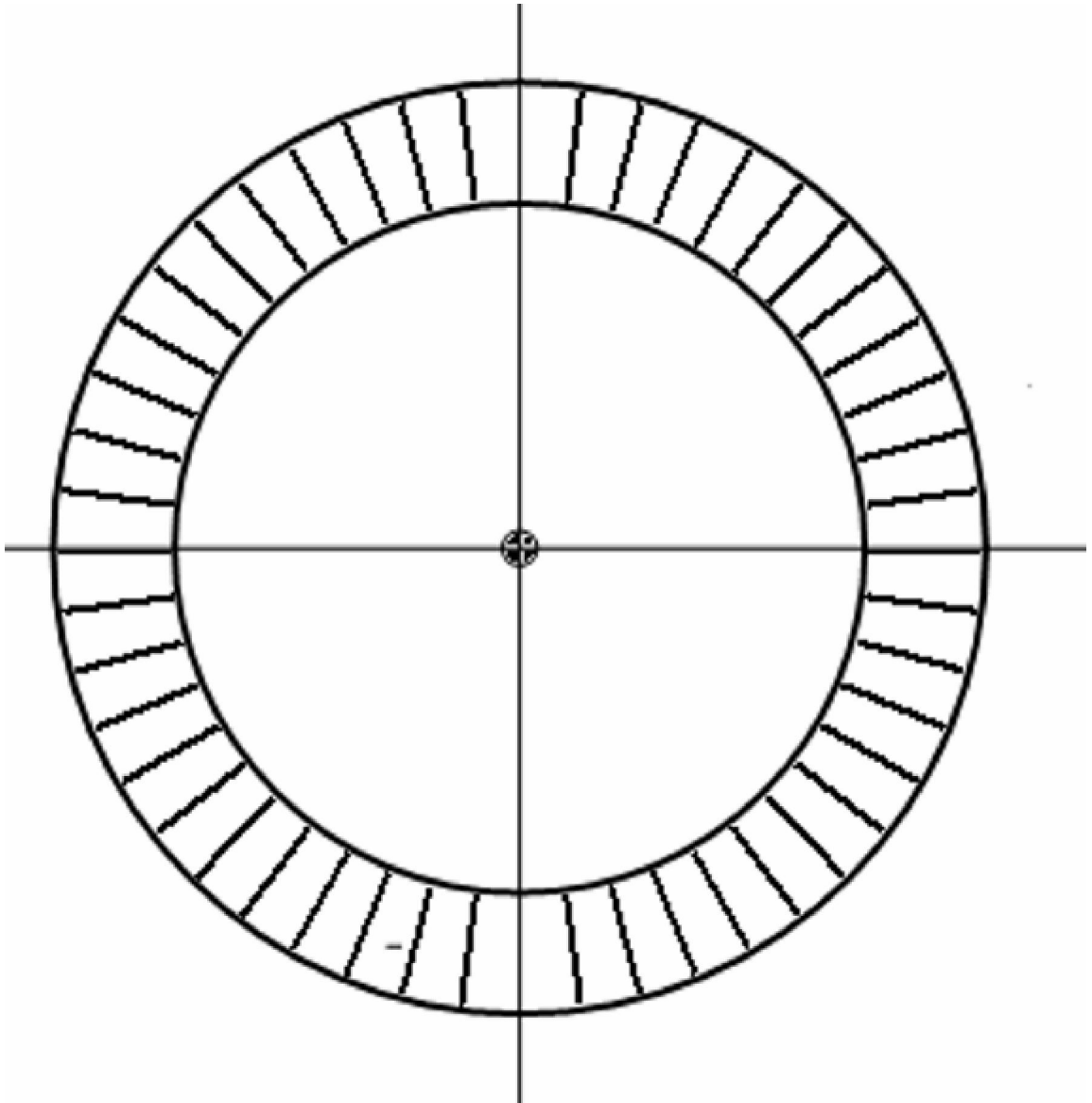
| | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| n | | | | | | | | | | |
| L_n | | | | | | | | | | |
| ε_n | | | | | | | | | | |

2.1



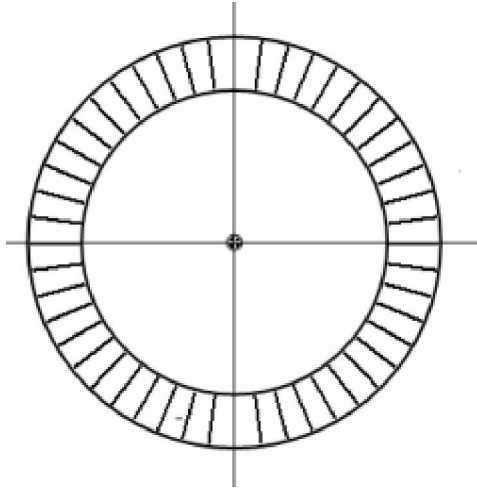
$S =$

2.2



$S =$

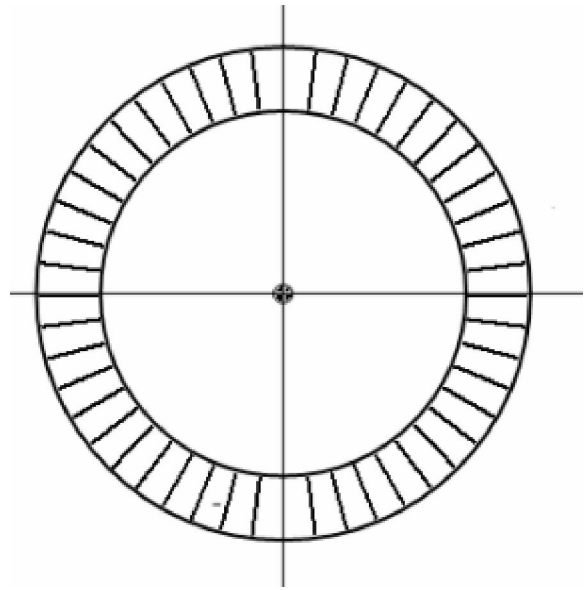
3.1



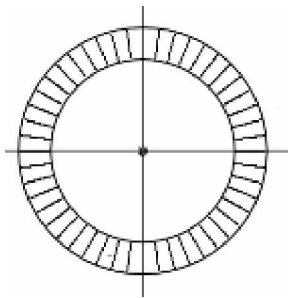
$S =$



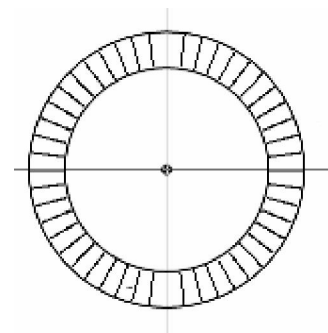
2-1.



2.2

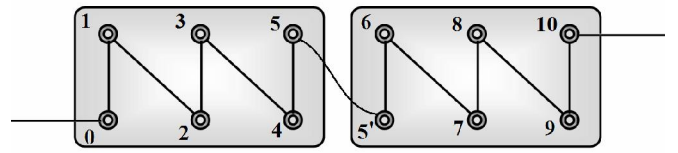


3.1

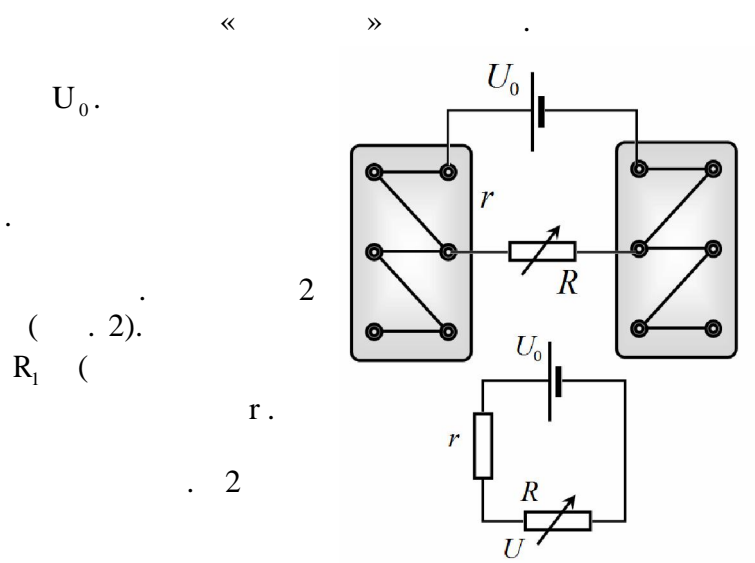


9-2.

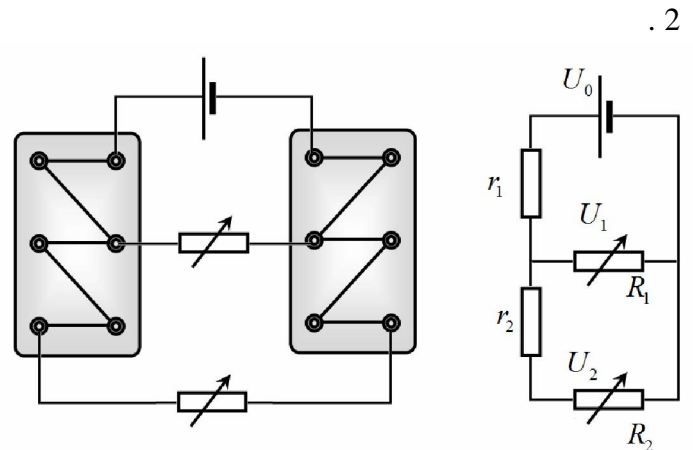
1.



| | |
|-------|-----------------------------------|
| 1.1 | $r_{01}, r_{02}, \dots, r_{9,10}$ |
| r_0 | Δr_0 |



$r = 4r_0$



$r_1 = 4r_0$

$r_2 = 6r_0$

2. .
P, R. U
.2.

$$r = 2r_0.$$

2.1 , , , ,
(, :« »),
« »).

2.2 U_0 .

2.3 U R.

2.4 , P, R.

2.5 P(R), ,
P, R.
P(R).

2.6 .

3. (,) ,
.3. U_1 U_2
 R_1 ,
 R_2 .

$$\begin{aligned} &: \\ r_1 = r_2 = r_0; \\ R_2 = 4,0 \end{aligned}$$

3.1 , , , ,
 , . ,
 3.2 U_0 .

3.3 U_1 U_2
 R_1 .
 $U_1(R_1), U_2(R_1)$.

3.4 , $P_1(R_1), P_2(R_1)$.
 .

3.5 ? ?