

II ( )

8

-4

7

6-7

5-6

4

« + »

2-3

1

0

1

(

);

).

7

: 285 × 39 = 11115.

$$\begin{array}{r}
 \times \quad \text{H H H} \\
 \text{H H H} \\
 \hline
 \text{H H H H H}
 \end{array}$$

-

O

$$\begin{array}{r}
 \times \quad \text{A E B} \\
 \quad \quad \text{C D} \\
 \hline
 + \quad \text{I F U G} \\
 \quad \quad \text{Y H K} \\
 \hline
 \text{L M N P R}
 \end{array}$$

. C > 1 ( C = 1 AEB YHK

). C = 3, A = 2

( C > 3 A > 2

AEB.C

). I = 2 ( A = 2, I

2).

D = 9 (

D

AEB.D

2100, a IFUG > 2100,

F

0). Y = 8 (

). E = 8

( E < 8, YHK < 810). F = 5 (

B 1 9

IFUG

2529 2601),

B < 9. H = 5 (

B 1 7

YHK

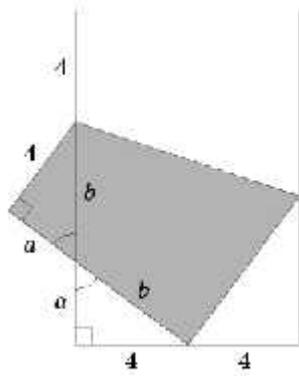
843 861). K = 5 (

85K

3).

( . ).





I II.  
3,4 5.

4

$$1 + \frac{1}{2^2} + \frac{1}{3^2} + \dots + \frac{1}{2012^2} < \frac{12}{7}$$

$$\frac{1}{(n-1)n} = \frac{1}{n-1} - \frac{1}{n}$$

:

$$1 + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \frac{1}{5^2} \dots + \frac{1}{2012^2} <$$

$$< 1 + \frac{1}{4} + \frac{1}{9} + \frac{1}{3 \cdot 4} + \frac{1}{4 \cdot 5} + \dots + \frac{1}{2011 \cdot 2012} =$$

$$= 1 + \frac{1}{4} + \frac{1}{9} + \frac{1}{3} - \frac{1}{4} + \dots + \frac{1}{2011} - \frac{1}{2012} <$$

$$< 1 + \frac{1}{4} + \frac{1}{9} + \frac{1}{3} = 1 + \frac{25}{36} < 1 + \frac{25}{35} = \frac{12}{7}$$

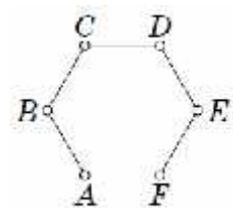
5

ABCDEF 6

: A-1, B-2, C-3, D-4, E-5, F-6.

?

7



A E, - B D.

A D,

4 + 5 = 9, -1 + 2 = 3, B E,

1 + 2 = 3 4 + 5 = 9,

1 + 5 = 6 2 + 4 = 6, C F,