

II ( )

10

-4

7

6-7

5-6

4

« + »

2-3

1

0

1

$$f(x) = x^2 + bx + c, D^2 = b^2 - 4c.$$

7

$$f(x) + f(x - D) = 0?$$

:

D,

$$f(x) = 0 \quad f(x - D) = 0$$

ox

( )

1

2

$$x!y! = z!$$

1 ( n!

1 n).

7

$$y = m, x = m! - 1, z = m!, \quad m - x \quad z$$

x,y,z (m!)!

$$x!y! = z! -$$

3

7

$O$  - ,  $AB \perp CD$  - ,  $M, N$  -  $CD$ ,  
 $K$  - ,  $ON \perp CD$ ,  $AB \perp CD$ ,  $ON \parallel AB$ ,  $OM \parallel CD$ ,  
 $OM \perp ON$ ,  $OMK \cong KNO$  ( $\angle KOM = \angle NMO$ ) ,  $KN = MO$ ,  $OK = MN$ .  
 $O$  - ,  $AB \perp CD$  - ,  $M, N$  - ,  $K$  -  
 $OK \perp MN$  .  $OMKN$  - ,

4

$$\frac{2}{1 \cdot 2 \cdot 3} + \frac{2}{2 \cdot 3 \cdot 4} + \frac{2}{3 \cdot 4 \cdot 5} + \dots + \frac{2}{2008 \cdot 2009 \cdot 2010}$$

$$= \frac{1009522}{2019045}$$

$$\frac{2}{n \cdot (n+1) \cdot (n+2)} = \frac{1}{n} - \frac{1}{n+1} - \frac{1}{n+1} + \frac{1}{n+2}$$

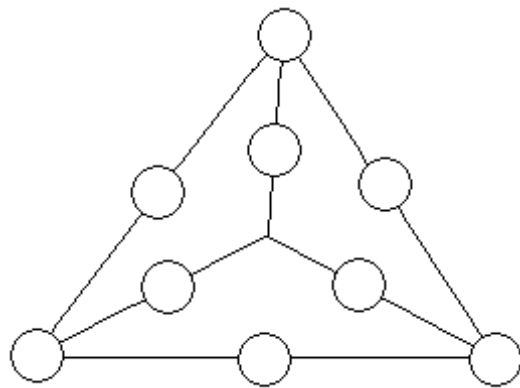
$$\frac{1}{1} - \frac{1}{2} - \frac{1}{2} + \frac{1}{3} + \frac{1}{2} - \frac{1}{3} - \frac{1}{3} + \frac{1}{4} + \frac{1}{3} - \frac{1}{4} - \frac{1}{4} + \frac{1}{5} + \dots + \frac{1}{2008} - \frac{1}{2009} - \frac{1}{2009} + \frac{1}{2010}$$

$$\frac{1}{1} - \frac{1}{2} - \frac{1}{2009} + \frac{1}{2010} = \frac{1009522}{2019045}$$

2

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0 9 ,  
?



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