

1. (3)

30 1000 , , 34 .
 :
 33 · 30 = 990 , 33 .
 (1000).
 34 .
 3 - ,
 2 - ,
 1 -
 0 -

2. (4)

40% . 9180 , 20% , -
 32% .
 :

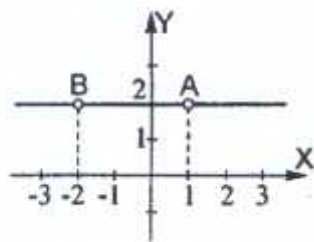
$$\begin{cases} 0,68(x+y) = 9180, \\ 0,8x + 0,6y = 9180; \end{cases} \Leftrightarrow \begin{cases} x+y = 13500, \\ 80x + 60y = 68(x+y); \end{cases} \Leftrightarrow \begin{cases} x+y = 13500, \\ 3x = 2y; \end{cases} \Leftrightarrow \begin{cases} x = 5400, \\ y = 8100. \end{cases}$$

4 - ,
 3 - ,
 1 -
 0 -

3. (5)

$$\frac{1}{x-1} + \frac{y+x}{x+2} = 1 + \frac{1}{x-1}.$$

:
 , $x-1 \neq 0$ ($x \neq 1$) $x+2 \neq 0$ ($x \neq -2$).
 $\frac{1}{x-1} + \frac{y+x}{x+2} = 1.$ +2
 $+ = +2.$, ()
 $= 1)$ ($= -2$).
 :



5 - ,
 2 - = 2,

0 -

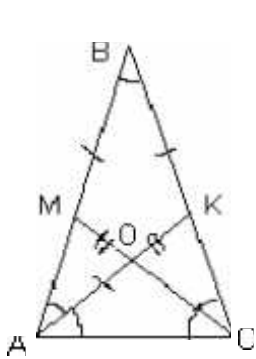
4. (7)

: = = 1, $\angle ABC = 36^\circ$.

K M

).

$\angle ABC = 36^\circ$, $\angle B C = \angle B A = 72^\circ$ (.



$\angle K = \angle M = \angle CAK = \angle BCM = \angle ACM = 36^\circ$.
 $\angle A K = \angle B A K$, (=). = ()
 II), = M K = , =
 = + + = + + = AK + AM = K + = + =
 = 1.

: 1.

7 - , ,

5 - ,

2 - , ,

0 -

5. (7)

$$2 = ^2 + 2 .$$

$$: 2x = x^2 + 2y \Leftrightarrow y^2 - 2y = (x - y)^2 \Leftrightarrow (y - 1)^2 - (x - y)^2 = 1 \Leftrightarrow (2y - x - 1)(x -$$

1) = 1.

$$= 2, = 2.$$

: (2;2).

7 - , ,

4 - ,

2 -

1 -

0 -