

II ()

10

-4
-35

7

6-7

5-6

4

« + »

2-3

1

0

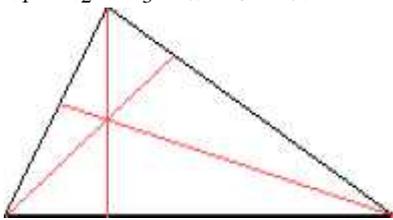
1

7

$h_1, h_2, h_3 -$
 $h_1 \leq b, h_2 \leq c, h_3 \leq a,$

a, b, c

$h_1 + h_2 + h_3 < a + b + c.$



2

$(x - y)^3 + (y - z)^3 + (z - x)^3 = 2014?$ $x, y, z,$

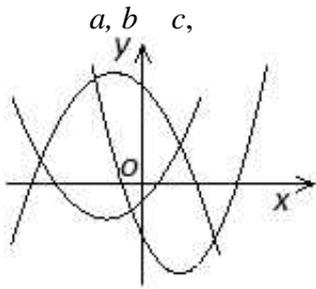
7

$-3x^2y + 3xy^2 - 3y^2z + 3zy^2 + 3z^2x - 3zx^2 = 2014.$

3,

$3(x - y)(y - z)(z - x).$

3



$$ax^2 + bx + c, bx^2 + cx + a, cx^2 + ax + b?$$

7

:

" "

a, b, c

y

b, c

2

(1, a + b + c).

4

$$x \geq 0$$

$$3x^3 - 6x^2 + 4 \geq 0.$$

:

$$3x^3 + 4 \geq 6x^2.$$

$$3x^3 + 4 = 2x^3 + x^3 + 4.$$

$$2x^3 + x^3 + 4 \geq 3\sqrt[3]{(2x^3)(x^3)(4)} = 3 \cdot 2x^2 = 6x^2$$

...

5

7

:

O
OAB, OBC, OCD, ODE, OEF, OFA -
A AB B O.

A, B, C, D, E, F.

B, C, D, E, F (.).

6

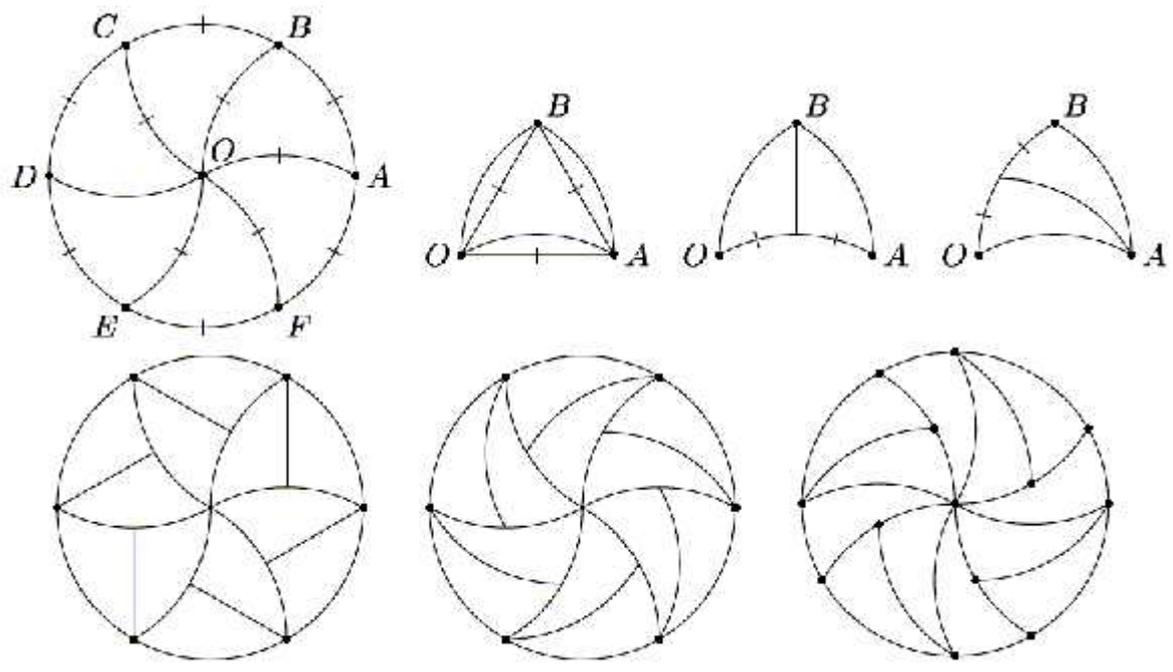


Рис. 8