

2015

2015

9

-3 30 (210).

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7

6-7

5-6

4

« + »

2-3

1

0

1

2015-

?
7

:

2

10.

7

n

$n^3 - n$

$n^3 + n$

n

0, 1, 4, 5, 6, 9,

n^3

2, 3, 7, 8,

n^3

, $n^3 - n$

10.

8, 7, 3,

2, ,

$n^3 + n$

10.

2 - 2

- 2

3

7

:

ABC $AB = BC$, M — AC , N — BC , —

, $BM \perp AC$.

O

AOM

, $AO > OM$,

$$\frac{2}{3}AN > \frac{1}{3}BM,$$

$$2AN > BM.$$

L N

NL

AC
 BM N —

BC , NL

BCM ,

$$NL = \frac{1}{2}BM.$$

$$ANL \quad AN > NL = \frac{1}{2}BM.$$

$$BM < 2AN.$$

4

$x, y > 0$.

S

$x, 1/y, y + 1/x$.

$S?$

7

: $\sqrt{2}$

$$x \leq \sqrt{2}, \quad S \leq \sqrt{2}.$$

$$y \geq \frac{1}{\sqrt{2}}, \quad S \leq y \leq \sqrt{2}.$$

$$x > \sqrt{2}, \quad y < \frac{1}{\sqrt{2}}, \quad S \leq y + \frac{1}{x} < \frac{2}{\sqrt{2}} = \sqrt{2}.$$

$$, S \leq \sqrt{2}.$$

$$: x = \frac{1}{y} = \sqrt{2}.$$

5

,

?

7

: 48

3,

6,

— 48.

: 32

, 16

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" 4. (

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4×4.)