

II ()

9

-4
-35

7
6-7
5-6

4

« + »

2-3

1

0

1

9

?		32
	35	40
9	21	

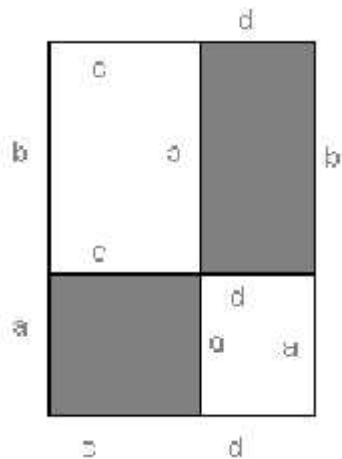
7

: 15

4

$$35+32-40=27,$$

$$9+35-21=23, \\ 23+27-35=15.$$

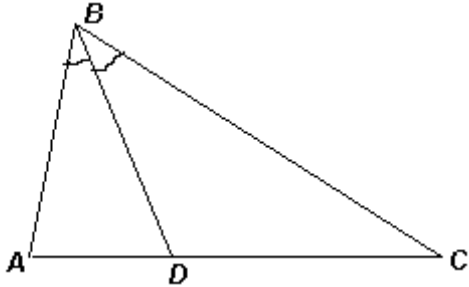


2

BD , $> AD$.

7

:



$\angle ADB - \angle ABD$

$\angle BDC$, $\angle ADB > \angle CBD = \angle ABD$, $> AD$.

, $> CD$.

3

$$a^5 - a^3 + a = 2, \quad a^6 > 3.$$

:

, $a > 0$,

$$a^6 + 1 = (a^2 + 1)(a^4 - a^2 + 1) = \frac{(a^2 + 1)(a^5 - a^3 + a)}{a} = \frac{2(a^2 + 1)}{a}$$

, $a > 0$,

$$a^6 = 2(a + 1/a) - 1 > 2 \cdot 2 - 1 = 3.$$

4

1 100 .

100.

7

:

A_1, \dots, A_{100} , X_1, X_2

$$A_k X_1 + A_k X_2 > X_1 X_2 = 2.$$

$$A_1 X_1 + \dots + A_{100} X_1 > 100, \quad A_1 X_2 + \dots + A_{100} X_2 > 100,$$

X_2

X_1

5

7

10
7

7

(?)

?

:77

$$7 + 10 \cdot 7 = 77$$

$$\frac{10}{7}$$