

## II ( )

9

-4

7  
6-7  
5-6  
4  
2-3  
1  
0

« + »

**1**

?

7

?

0

**2**

:

$$\frac{\sqrt{a+b\sqrt{2}}}{a-b}$$

$$\frac{\sqrt{c+d\sqrt{7}}}{c-d}$$

?

7

:

$$\sqrt{3+\sqrt{2}} + \sqrt{3-\sqrt{2}} = \sqrt{6+2\sqrt{7}}$$

?

$$\sqrt{A+B\sqrt{2}} + \sqrt{A-B\sqrt{2}} = \sqrt{C+D\sqrt{7}} \quad (*)$$

$$2A + 2\sqrt{A^2 - 2B^2} = C + D\sqrt{7}$$

$$C = 2A, D = 2.$$

$$A = B, \quad A^2 - 2B^2 = 7,$$

$$A^2 - 2B^2 = 7 \quad (*)$$

$$A^2 - 2B^2 = 1$$

0

3

$$a^2 + b^2 = 5c^2.$$

AA<sub>1</sub> BB<sub>1</sub>

ABC

7

$$M \text{ — } AM^2 + BM^2 = AB^2, \quad 4(m_a^2 + m_b^2)/9 = c^2.$$

$$(m_a^2 = (2b^2 + 2c^2 - a^2)/4.$$

$$) \quad m_a^2 + m_b^2 = (4c^2 + a^2 + b^2)/4,$$

4

$$|a - b| \geq |c|, |b - c| \geq |a|, |c - a| \geq |b|,$$

7

$$(a - b)^2 - c^2 \geq 0. \quad |a - b| \geq |c|$$

$$: (a - b - c)(a - b + c) \geq 0, \quad (a - b - c)(b - c - a) \leq 0.$$

$$(b - c - a)(c - a - b) \quad (c - a - b)(a - b - c)$$

$$(a - b - c)^2(b - c - a)^2(c - a - b)^2 \leq 0.$$

5

$$9 \cdot 9$$

$$81$$

2.

17.

7

: )

$$) \quad 9 \times 9 \quad 9 \quad 3 \times 3. \quad 3 \times 3$$

18

18

18 17.

$$- \quad 1 \quad 9.$$

$$3 \times 3$$

$$3 \times 3$$

$$3 \times 3$$

d4.

c1,

a1, c1 a3.

a1.

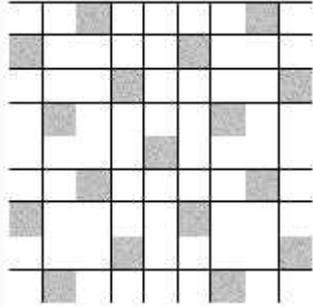
a3.

c2.

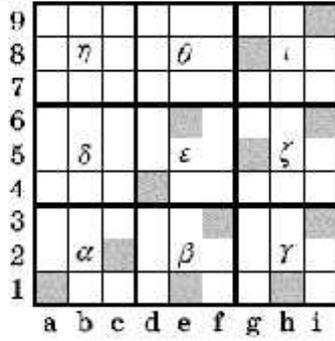
- e1, f3 h1, i3.

g5, i6, g8 i9.

e6.



a)



b)