1. (5   )

.   ,   −

4   .

,

1,2,3,4,6;   - 0,2,5,7;   – 1,3,5,6,7,8,9?

(   )

2. (5   )

$$\begin{cases} 10\,{}^2 + 5\,{}^2 - 2\quad - 38\quad - 6\quad + 41 = 0, \\ 3\,{}^2 - 2\,{}^2 + 5\quad - 17\quad - 6\quad + 20 = 0. \end{cases}$$

3. (7   )

.

400   .   .   12

, 500   .   .   16   , 600   .   .   15

.   326   .

.

4. (7   )

, $4\sin 3\alpha + 5 \geq 4\cos 2\alpha + 5\sin\alpha$ $(\forall \alpha \in \boldsymbol{R})$.

5. (7   )

$ABCDA_1B_1C_1D_1 -$

2. BAD, BAA_1 DAA_1 $60°$.

BDD_1.