**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1,2), B(4,-2) and C(-5,-6).

Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle ABC are given as: A(1,-1), B(-2,11) and C(9,7).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(-3,1), B(1,4) and C(2,-11).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1.** Coordinates of apexes of the triangle ABC are given as: A(0,-5), B(5,7) and C(3,-9).

Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1,1), B(4,5) and C(5,-2).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1,4), B(-3,7) and C(-7,-2).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
$$\triangle ABC$$
 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1.** Coordinates of apexes of the triangle ABC are given as: A(-6,5), B(6,0) and C(2,11).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(-1, 1); B(-2, 2); C(2, -1). Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
$$\triangle ABC$$
 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1, 2); B(2, -1); C(-1, 1). Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
$$\triangle ABC$$
 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(-1, -2); B(-2, 1); C(1, -1). Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
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 as  $S = \frac{1}{2}AH \cdot BC$ ;

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Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
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 as  $S = \frac{1}{2}AH \cdot BC$ ;

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Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

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**Task 1.** Coordinates of apexes of the triangle ABC are given as: A(0,-5), B(5,7) and C(3,-9).

Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
$$\triangle ABC$$
 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1,1), B(4,5) and C(5,-2).

Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1,4), B(-3,7) and C(-7,-2).

Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
$$\triangle ABC$$
 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1.** Coordinates of apexes of the triangle ABC are given as: A(-6,5), B(6,0) and C(2,11).

Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

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5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

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Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

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6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(-1, -2); B(-2, 1); C(1, -1). Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

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3) coordinates of the point M (as the midpoint of the segment BC);

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3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

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Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

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3) coordinates of the point M (as the midpoint of the segment BC);

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5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

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Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
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Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area  $\triangle ABC$  as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

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Find:

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2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
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 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(1, 2); B(2, -1); C(-1, 1). Find:

1) the length of the side BC (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

4) the length of the altitude AH (as the distance from A to the straight line BC);

5) the area 
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 as  $S = \frac{1}{2}AH \cdot BC$ ;

6) the equation of the straight line passing through point A and parallel to BC;

**Task 1**. Coordinates of apexes of the triangle *ABC* are given as: A(-1, -2); B(-2, 1); C(1, -1). Find:

1) the length of the side *BC* (as the module of the vector  $\overrightarrow{BC}$ );

2) the equation of the side BC (as the equation of the straight line passing thought points B and C);

3) coordinates of the point M (as the midpoint of the segment BC);

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