

Coordinate Geometry NOTES

Name: _____

Date: _____

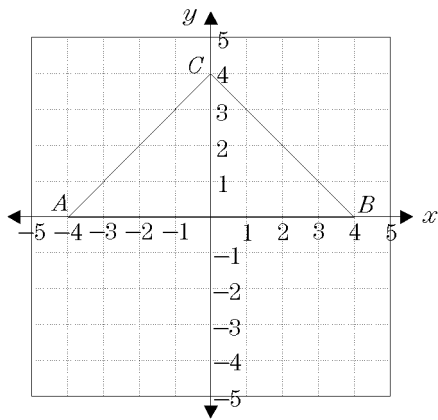
1. In a circle, the coordinates of the endpoints of a diameter are $(4, 5)$ and $(10, 1)$. What are the coordinates of the center of the circle?

2. Segment AB is the diameter of a circle whose center is the point $(2, 5)$. If the coordinates of A are $(1, 3)$, find the coordinates of B .

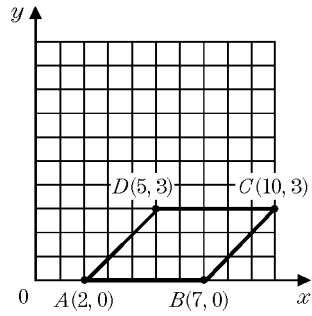
3. If the endpoints of the diameter of a circle are $(3, 1)$ and $(6, 5)$, find the length of the diameter.

4. Find the area of the triangle whose vertices have coordinates $(8, 0)$, $(0, 10)$, and $(0, 0)$.

5. In the accompanying diagram, isosceles triangle ABC has coordinates $A(-4, 0)$, $B(4, 0)$, and $C(0, 4)$. Find the area of $\triangle ABC$.



6. In the accompanying diagram $ABCD$ is a parallelogram with vertices $A(2, 0)$, $B(7, 0)$, $C(10, 3)$, and $D(5, 3)$. What is the area of parallelogram $ABCD$?



7. What is the area of rectangle $ABCD$ whose vertices are $A(3, 2)$, $B(3, -2)$, $C(-3, 2)$, and $D(-3, 2)$?

1.
Answer: (7, 3)
2.
Answer: (3, 7)
3.
Answer: 5
4.
Answer: 40
5.
Answer: 16
6.
Answer: 15
7.
Answer: 24