

Midpoint Formula - Shapes

- 1) The coordinates of the diameter of a semicircle are $(-7, 9)$ and $(-7, 5)$. Find the center of the semicircle.

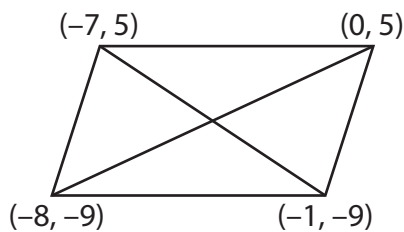
- 2) Find the point of intersection of diagonals of the square whose vertices are $(2, -5)$, $(2, -9)$, $(6, -9)$ and $(6, -5)$.

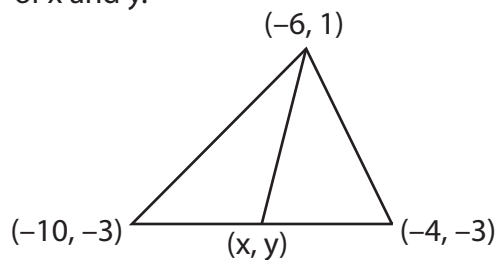
- 3) Find the point of intersection of the diagonals of the rectangle whose vertices are $(-1, 3)$, $(-1, 7)$, $(7, 7)$ and $(7, 3)$.

- 4) The coordinates of the center of the circle are $(-2, 3)$ and the radius is 5. Find the coordinates of the endpoints of a diameter of the circle.

- 5) Find the point of intersection of the diagonals of the parallelogram whose vertices are $(-4, 0)$, $(0, -6)$, $(4, 0)$ and $(0, 6)$.

- 6) Find the point of intersection of the diagonals of the parallelogram whose vertices are $(-7, 5)$, $(0, 5)$, $(-8, -9)$ and $(-1, -9)$.
 7) The line segment with endpoints $(-6, 1)$ and (x, y) is a median of the triangle. Find the value of x and y .





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Midpoint Formula - Shapes

Sheet 2

- 1) The coordinates of the diameter of a semicircle are $(-7, 9)$ and $(-7, 5)$. Find the center of the semicircle.

The center of the semicircle is $(-7, 7)$.

- 2) Find the point of intersection of diagonals of the square whose vertices are $(2, -5)$, $(2, -9)$, $(6, -9)$ and $(6, -5)$.

The point of intersection is $(4, -7)$.

- 3) Find the point of intersection of the diagonals of the rectangle whose vertices are $(-1, 3)$, $(-1, 7)$, $(7, 7)$ and $(7, 3)$.

The point of intersection is $(3, 5)$.

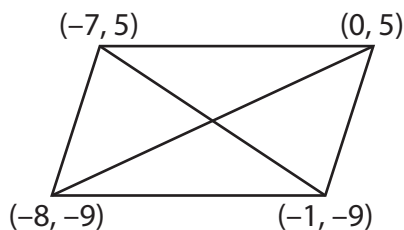
- 4) The coordinates of the center of the circle are $(-2, 3)$ and the radius is 5. Find the coordinates of the point on the circle.

The center of the circle is $(-2, 3)$.

- 5) Find the point of intersection of the diagonals of the parallelogram whose vertices are $(-4, 0)$, $(0, -6)$, $(4, 0)$ and $(0, 6)$.

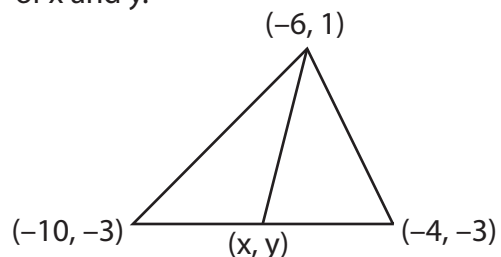
The point of intersection is $(0, 0)$.

- 6) Find the point of intersection of the diagonals of the parallelogram whose vertices are $(-7, 5)$, $(0, 5)$, $(-8, -9)$ and $(-1, -9)$.



$(-4, -2)$

- 7) The line segment with endpoints $(-6, 1)$ and (x, y) is a median of the triangle. Find the value of x and y .



$x = -7, y = -3$

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