

Name : _____

Midpoint Formula - Shapes

Sheet 4

- 1) Find the point of intersection of diagonals of the square whose vertices are $(-2, 1)$, $(2, 1)$, $(2, -3)$ and $(-2, -3)$.

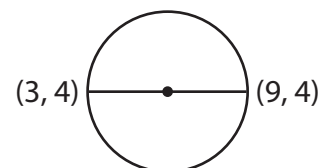
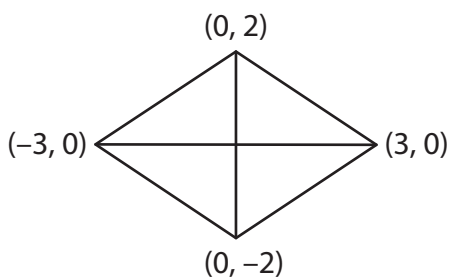
- 2) The coordinates of the diameter of a semicircle are $(-10, 8)$ and $(-10, 10)$. Find the center of the semicircle.

- 3) Find the endpoints of _____ and $(5, 1)$.

- 4) Find the point of intersection of the diagonals of a square whose vertices are $(-9, -8)$, $(3, -8)$, $(3, -10)$ and $(-9, -10)$.

- 5) Find the point of intersection of the diagonals of a square whose vertices are $(-8, -2)$, $(-5, -2)$, $(-6, -5)$ and $(-1, -5)$.

- 6) Find the point of intersection of the diagonals of a square whose vertices are $(-3, 0)$, $(3, 0)$, $(0, 2)$ and $(0, -2)$.
7) Find the center of a circle whose diameter has endpoints $(3, 4)$ and $(9, 4)$.



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Name : _____

Answer key

Midpoint Formula - Shapes

- 1) Find the point of intersection of diagonals of the square whose vertices are $(-2, 1)$, $(2, 1)$, $(2, -3)$ and $(-2, -3)$.

The point of intersection is $(0, -1)$.

- 2) The coordinates of the diameter of a semicircle are $(-10, 8)$ and $(-10, 10)$. Find the center of the semicircle.

The center of the semicircle is $(-10, 9)$.

- 3) Find the endpoints of the diameter of a circle whose center is $(-1, 2)$ and one endpoint is $(5, 1)$.

The endpoints of the diameter are $(-7, 3)$ and $(5, 1)$.

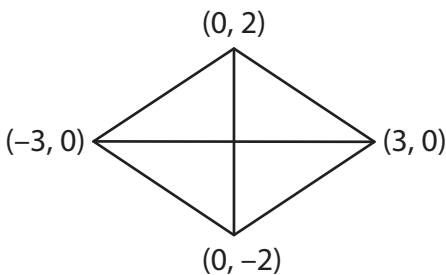
- 4) Find the point of intersection of the diagonals of a parallelogram whose vertices are $(-9, -8)$, $(3, -8)$, $(3, -10)$ and $(-9, -10)$.

The point of intersection is $(-3, -9)$.

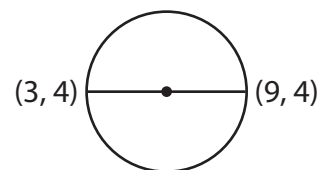
- 5) Find the point of intersection of the diagonals of a rhombus whose vertices are $(-8, -2)$, $(-5, -2)$, $(-6, -5)$ and $(-1, -5)$.

The point of intersection is $(-2.5, -3.5)$.

- 6) Find the point of intersection of the diagonals of a square whose vertices are $(-3, 0)$, $(3, 0)$, $(0, 2)$ and $(0, -2)$.



$(0, 0)$



$(6, 4)$

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