

Name : _____

Score : _____

Midpoint Formula - Shapes

Sheet 1

- 1) Find the point of intersection of diagonals of the parallelogram whose vertices are $(-3, 2)$, $(-4, 4)$, $(1, 4)$ and $(2, 2)$.

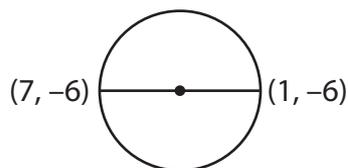
- 2) Find the endpoints of the median of triangle whose vertices are $(3, 1)$, $(7, 1)$ and $(3, 7)$.

- 3) Find the point of intersection of diagonals of the rhombus whose vertices are $(-10, -2)$, $(-8, -5)$, $(-6, -2)$ and $(-8, 1)$.

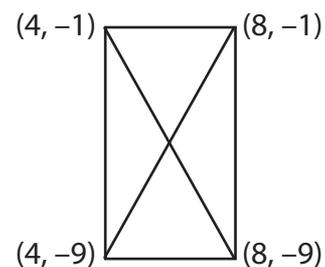
- 4) The coordinates of the diameter of a semicircle are $(0, 1)$ and $(6, 1)$. Find the center of the semicircle.

- 5) Find the point of intersection of diagonals of the square whose vertices are $(1, -8)$, $(1, -10)$, $(3, -10)$ and $(3, -8)$.

- 6) Find the center of a circle.



- 7) Find the point of intersection of the diagonals.



Midpoint Formula - Shapes

Sheet 1

- 1) Find the point of intersection of diagonals of the parallelogram whose vertices are $(-3, 2)$, $(-4, 4)$, $(1, 4)$ and $(2, 2)$.

The point of intersection is $(-1, 3)$.

- 2) Find the endpoints of the median of triangle whose vertices are $(3, 1)$, $(7, 1)$ and $(3, 7)$.

The endpoints of the median are $(5, 1)$, $(5, 4)$ and $(3, 4)$.

- 3) Find the point of intersection of diagonals of the rhombus whose vertices are $(-10, -2)$, $(-8, -5)$, $(-6, -2)$ and $(-8, 1)$.

The point of intersection is $(-8, -2)$.

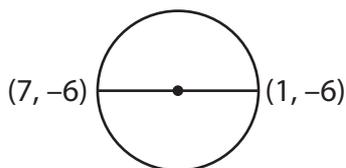
- 4) The coordinates of the diameter of a semicircle are $(0, 1)$ and $(6, 1)$. Find the center of the semicircle.

The center of the semicircle is $(3, 1)$.

- 5) Find the point of intersection of diagonals of the square whose vertices are $(1, -8)$, $(1, -10)$, $(3, -10)$ and $(3, -8)$.

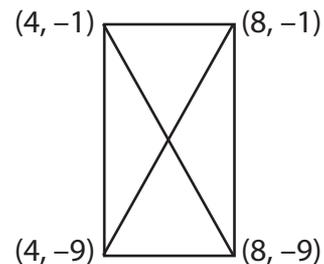
The point of intersection is $(2, -9)$.

- 6) Find the center of a circle.



$(4, -6)$

- 7) Find the point of intersection of the diagonals.



$(6, -5)$

Midpoint Formula - Shapes

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

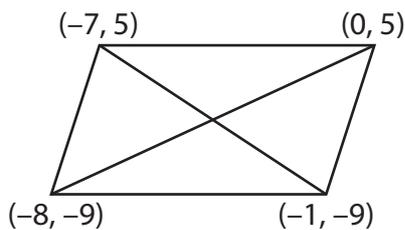
- 2) Find the point of intersection of diagonals of the square whose vertices are $(2, -5)$, $(2, -9)$, $(6, -9)$ and $(6, -5)$.

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

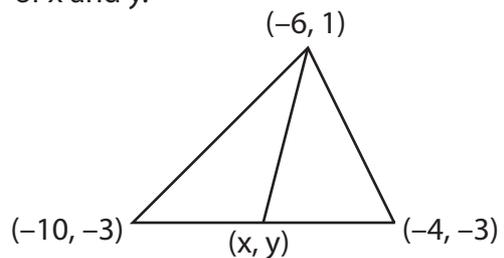
- 4) The coordinates of the center of the circle are $(-2, 3)$ and the radius is 5. Find the coordinates of the endpoints of a diameter of the circle.

- 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 $(3, 5)$.

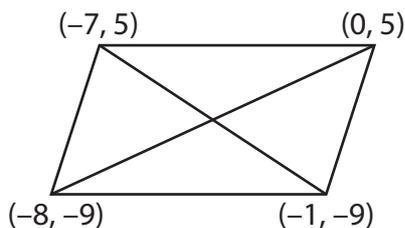
- 4) The coordinates of the center of the circle are $(-2, 3)$ and the radius is 5. Find the coordinates of the point on the circle.

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 $(0, 6)$.

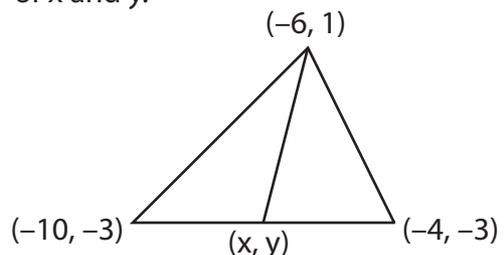
The point of intersection is $(0, 0)$.

- 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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Midpoint Formula - Shapes

- 1) Find the point of intersection of diagonals of the rhombus whose vertices are $(6, -3)$, $(8, -6)$, $(6, -9)$ and $(4, -6)$.

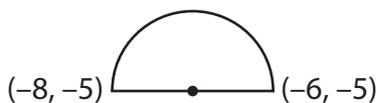
- 2) The coordinates of the diameter of a circle are $(-7, 3)$ and $(-3, 3)$. Find the center of the circle.

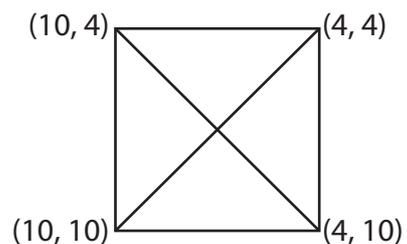
- 3) Find the point of intersection of diagonals of a rhombus whose vertices are $(-9, 9)$, $(-10, 7)$, $(-5, 7)$ and $(-4, 9)$.

- 4) Find the endpoints of a diameter of a circle whose center is $(-1, 3)$ and one endpoint is $(3, -8)$ and $(7, -8)$.

- 5) Find the point of intersection of diagonals of a square whose vertices are $(-7, 2)$, $(-3, 2)$, $(-3, 8)$ and $(-7, 8)$.

- 6) Find the center of a semicircle. 7) Find the point of intersection of the diagonals.





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Midpoint Formula - Shapes

Sheet 3

- 1) Find the point of intersection of diagonals of the rhombus whose vertices are $(6, -3)$, $(8, -6)$, $(6, -9)$ and $(4, -6)$.

The point of intersection is $(6, -6)$.

- 2) The coordinates of the diameter of a circle are $(-7, 3)$ and $(-3, 3)$. Find the center of the circle.

The center of the circle is $(-5, 3)$.

- 3) Find the point of intersection of the diagonals of a rhombus whose vertices are $(-9, 9)$, $(-10, 7)$, $(-5, 7)$ and $(-4, 9)$.

The point of intersection is $(-7, 8)$.

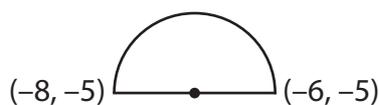
- 4) Find the endpoints of the diameter of a circle whose center is $(3, -8)$ and one endpoint is $(7, -8)$.

The endpoints of the diameter are $(-1, -8)$ and $(7, -8)$.

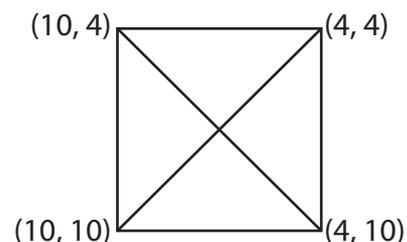
- 5) Find the point of intersection of the diagonals of a rectangle whose vertices are $(-7, 2)$, $(-3, 2)$, $(-3, 8)$ and $(-7, 8)$.

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

- 6) Find the center of a semicircle whose endpoints of the diameter are $(-8, -5)$ and $(-6, -5)$.
 7) Find the point of intersection of the diagonals of a square whose vertices are $(10, 4)$, $(4, 4)$, $(4, 10)$ and $(10, 10)$.



$(-7, -5)$



$(7, 7)$

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