

## Midpoint Formula - Shapes

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

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

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

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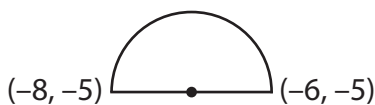
- 4) Find the endpoints of a diameter of a circle whose center is  $(3, -8)$  and one endpoint is  $(7, -8)$ .

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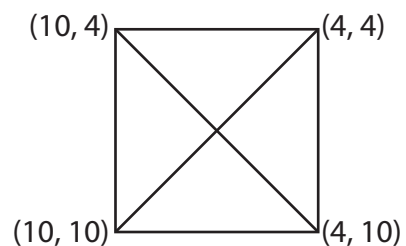
- 5) Find the point of intersection of diagonals of a square whose vertices are  $(-7, 2)$ ,  $(-3, 2)$ ,  $(-3, 8)$  and  $(-7, 8)$ .

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- 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  $(10, 10)$ .



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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  $(6, -6)$ .**

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- 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  $(-5, 3)$ .**

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

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

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- 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  $(7, -8)$ .**

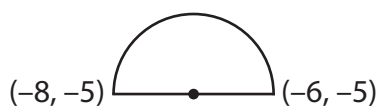
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- 5) Find the point of intersection of the diagonals of a rectangle whose vertices are  $(-7, 2)$ ,  $(-3, 2)$ ,  $(-3, 8)$  and  $(-7, 8)$ .

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

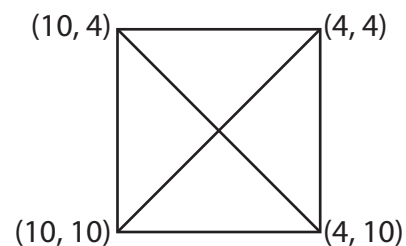
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- 6) Find the center of a semicircle whose endpoints of the diameter are  $(-8, -5)$  and  $(-6, -5)$ .  
7) Find the point of intersection of the diagonals of a square whose vertices are  $(10, 4)$ ,  $(4, 4)$ ,  $(4, 10)$  and  $(10, 10)$ .



**$(-7, -5)$**

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**$(7, 7)$**

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