

## Midpoint Formula

Sheet 2

- 1) A point  $(-2, 1)$  is one-fourth of the way from the endpoint  $(-4, 1)$ . Find the other endpoint of the line segment.

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- 2) One endpoint of a line segment is  $(-1, 0)$ . A point  $(3, 2)$  is two-third of the way from  $(-1, 0)$ . Find the point that is one-third of the way from  $(-1, 0)$ .

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- 3) The points  $(-4, 5)$  and  $(-2, 5)$  are the endpoints of a line segment. Find the point that is one-third of the way from the point P

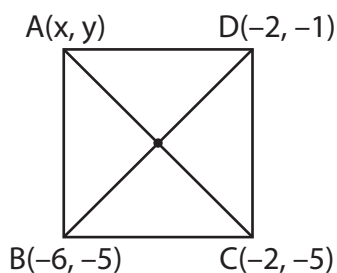
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- 4) One endpoint of a line segment is  $(-9, -8)$ . A point  $(-3, -8)$  is one-third of the way from the other endpoint. Find the point that is one-third of the way from  $(-9, -8)$ .

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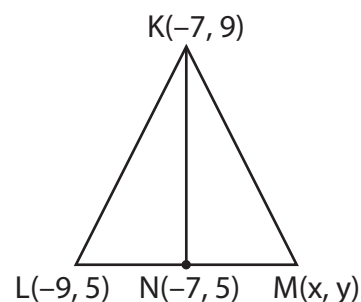
- 5) Find the missing coordinate.

- a) ABCD is a square.



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- b) KN is the median of a triangle KLM.



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## Midpoint Formula

Sheet 2

- 1) A point  $(-2, 1)$  is one-fourth of the way from the endpoint  $(-4, 1)$ . Find the other endpoint of the line segment.

**$(4, 1)$**

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- 2) One endpoint of a line segment is  $(-1, 0)$ . A point  $(3, 2)$  is two-third of the way from  $(-1, 0)$ . Find the point that is one-third of the way from  $(-1, 0)$ .

**$(1, 1)$**

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- 3) The points  $(-4, 5)$  and  $(-10, 1)$  are the endpoints of a line segment. Find the point that is  $\frac{2}{3}$  of the way from the point P

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

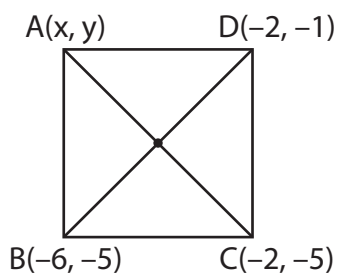
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- 4) One endpoint of a line segment is  $(-9, -8)$ . A point  $(-7, -4)$  is  $\frac{2}{3}$  of the way from  $(-9, -8)$ . Find the point that is  $\frac{1}{3}$  of the way from  $(-9, -8)$ .

**$(-7, -4)$**

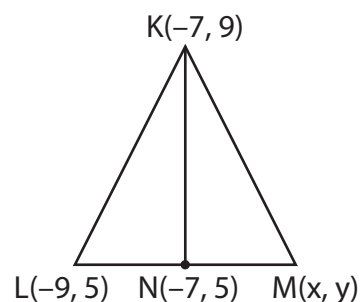
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- 5) Find the missing coordinate of the point P.
- a) ABCD is a square. b) KN is the median of a triangle KLM.



**$(-6, -1)$**

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

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