

## Midpoint Formula

Sheet 1

- 1) One endpoint of a line segment is  $(-2, -6)$ . A point  $(0, -5)$  is one-third of the way from  $(-2, -6)$ . Find the point that is two-third of the way from  $(-2, -6)$ .

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- 2) The points  $(4, 1)$  and  $(5, -1)$  are three-fifth and four-fifth of the way from the point A respectively. Find the endpoint B.

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- 3) The endpoints of a line segment are  $(-7, 8)$  and  $(1, 2)$ . Find the point M that is one-fourth of the way from  $(-7, 8)$  to  $(1, 2)$ .

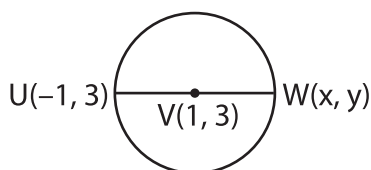
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- 4) The points  $(4, 5)$  and  $(8, 1)$  are two-third and one-third of the way from the point A respectively. Find the point M.

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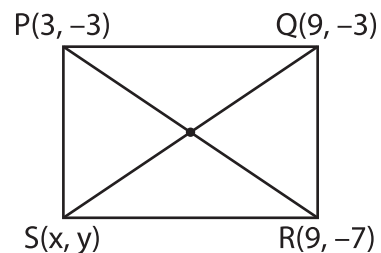
- 5) Find the missing coordinate.

- a)  $UV$  is the radius of a circle.



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- b)  $PQRS$  is a rectangle.



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