

Midpoint Formula

Sheet 3

- 1) The points $(-7, -4)$ and $(-6, -2)$ are two-fifth and three-fifth of the way from the point U respectively. Find the point U.

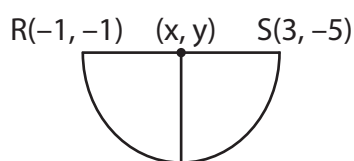
- 2) The endpoints of a line segment is $(-4, 1)$ and $(4, 1)$. Find the point that is three-fourth of the way from $(-4, 1)$.

- 3) One endpoint of a line segment is $(-7, -7)$. Find the other endpoint if the midpoint is $(-1, -1)$. Find the point that is three-fourth of the way from $(-7, -7)$.

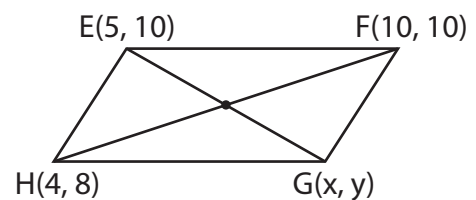
- 4) One endpoint of a line segment is $(1, 7)$. Find the point that is three-fourth of the way from $(1, 7)$.

- 5) Find the missing coordinate.

- a) RS is the diameter of a semicircle.



- b) EFGH is a parallelogram.



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Midpoint Formula

Sheet 3

- 1) The points $(-7, -4)$ and $(-6, -2)$ are two-fifth and three-fifth of the way from the point U respectively. Find the point U.

_____ **$(-9, -8)$**

- 2) The endpoints of a line segment is $(-4, 1)$ and $(4, 1)$. Find the point that is three-fourth of the way from $(-4, 1)$.

_____ **$(2, 1)$**

- 3) One endpoint of a line segment is $(-7, -7)$. Find the other endpoint if the midpoint is $(-1, -1)$. of the way from $(-7, -7)$.

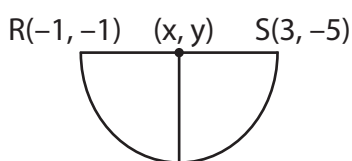
_____ **$(-1, -1)$**

- 4) One endpoint of a line segment is $(1, 7)$. Find the point that is two-thirds of the way from $(1, 7)$.

_____ **$(3, 3)$**

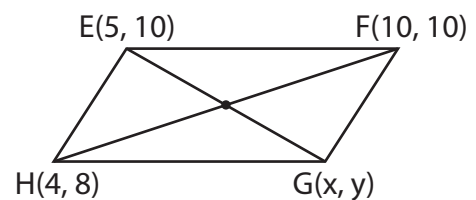
- 5) Find the missing coordinate.

- a) RS is the diameter of a semicircle.



_____ **$(1, -3)$**

- b) EFGH is a parallelogram.



_____ **$(9, 8)$**

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