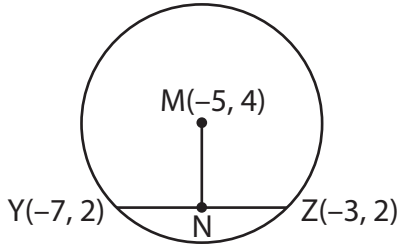


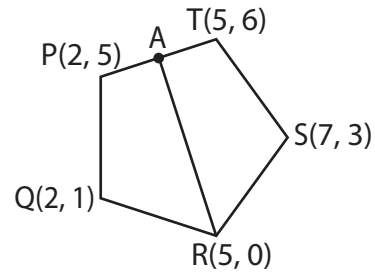
## Midpoint and Distance Formula

Solve each problem. Round the answer to the nearest tenth.

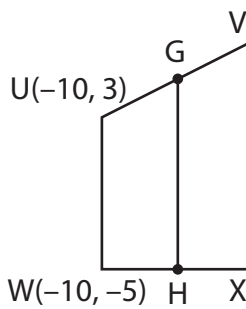
- 1) M is the center of the circle. N is the midpoint of chord  $\overline{YZ}$ . Find the length of  $\overline{MN}$ .



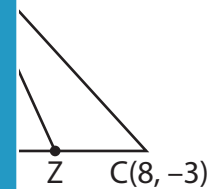
- 2) Find the length of  $\overline{AR}$  if A is the midpoint of  $\overline{PT}$ .



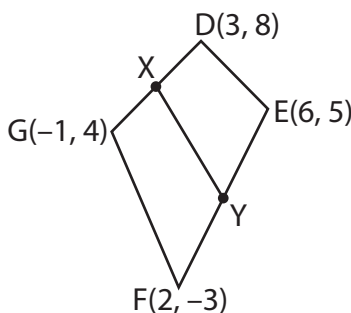
- 3) G and H are the midpoints of  $\overline{UV}$  and  $\overline{WX}$  respectively. Find the length of  $\overline{GH}$ .



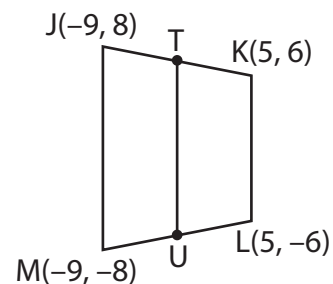
- 4) Find the length of  $\overline{BC}$ . Find the midpoint of  $\overline{BC}$ .



- 5) X and Y are the midpoints of  $\overline{DG}$  and  $\overline{FE}$  respectively. Find the length of  $\overline{XY}$ .



- 6) Find the length of  $\overline{TU}$  if T and U are the midpoints of  $\overline{JK}$  and  $\overline{ML}$  respectively.



# PREVIEW

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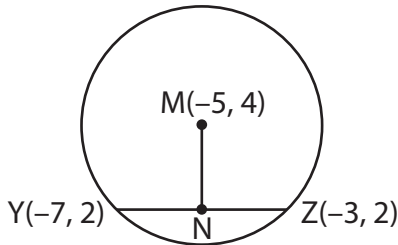
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**Midpoint and Distance Formula**

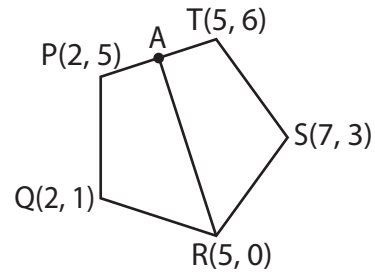
Solve each problem. Round the answer to the nearest tenth.

- 1) M is the center of the circle. N is the midpoint of chord  $\overline{YZ}$ . Find the length of  $\overline{MN}$ .



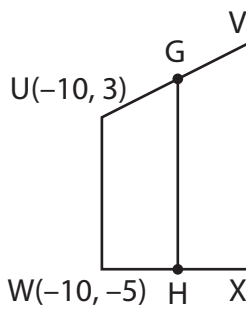
**2 units**

- 2) Find the length of  $\overline{AR}$  if A is the midpoint of  $\overline{PT}$ .



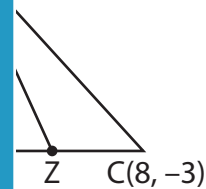
**≈ 5.7 units**

- 3) G and H are the midpoints of  $\overline{UV}$  and  $\overline{WX}$  respectively. Find the length of  $\overline{GH}$ .



**10 units**

- 4) Find the length of  $\overline{BC}$ . Find the midpoint of  $\overline{BC}$ . Find the length of  $\overline{AZ}$ .



**12.1 units**

**PREVIEW**

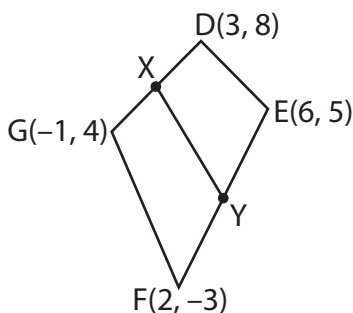
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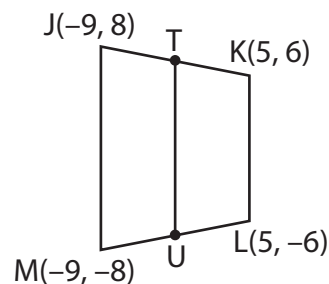
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- 5) X and Y are the midpoints of  $\overline{DG}$  and  $\overline{FE}$  respectively. Find the length of  $\overline{XY}$ .



**$\sqrt{34} \approx 5.8$  units**

- 6) Find the length of  $\overline{TU}$  if T and U are the midpoints of  $\overline{JK}$  and  $\overline{ML}$  respectively.



**14 units**