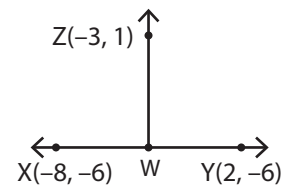


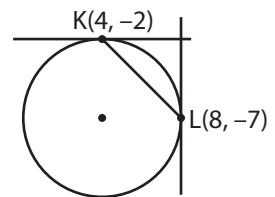
Distance Formula

Sheet 4

- 1) W is a midpoint of \overline{XY} . Find the distance between Z and W.



- 2) Two tangents touch the circle at the points $K(4, -2)$ and $L(8, -7)$. Find the length of the chord \overline{KL} . Round the answer to nearest tenth.



- 3) D is a midpoint of \overline{AB} .

PREVIEW

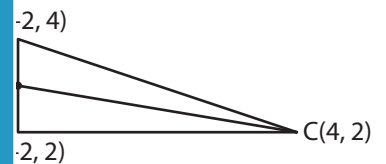
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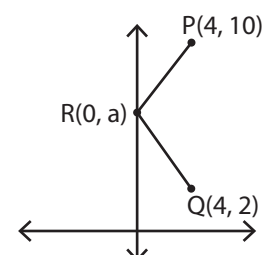
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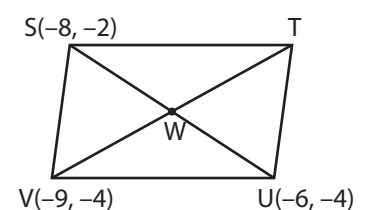
tenth.



- 4) A point $(0, a)$ is equidistant from points $P(4, 10)$ and $Q(4, 2)$. Find the value of a .

value of a .

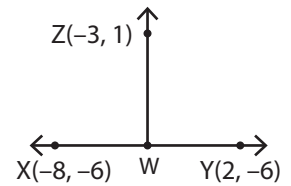
- 5) W is a point of intersection of the diagonals of a parallelogram STUV. Find the length of \overline{TV} . Round the answer to nearest tenth.



Distance Formula

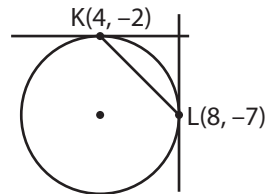
Sheet 4

- 1) W is a midpoint of \overline{XY} . Find the distance between Z and W.



$$\underline{ZW = 7 \text{ units}}$$

- 2) Two tangents touch the circle at the points $K(4, -2)$ and $L(8, -7)$. Find the length of the chord \overline{KL} . Round the answer to nearest tenth.



$$\underline{KL = \sqrt{41} \approx 6.4 \text{ u}}$$

- 3) D is a midpoint of \overline{AB} .

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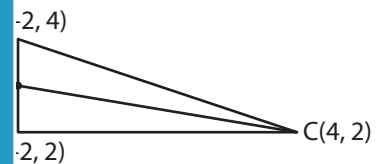
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$$\underline{DC = \sqrt{37} \approx 6.1 \text{ u}}$$

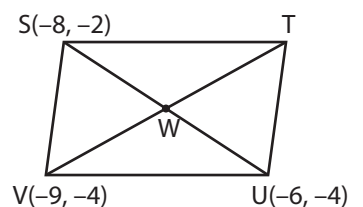
- 4) A point $(0, a)$ is equidistant from $P(4, 10)$ and $Q(4, 2)$. Find the value of a .

tenth.



$$\underline{a = 6}$$

- 5) W is a point of intersection of the diagonals of a parallelogram STUV. Find the length of \overline{TV} . Round the answer to nearest tenth.



$$\underline{TV = \sqrt{20} \approx 4.5 \text{ units}}$$