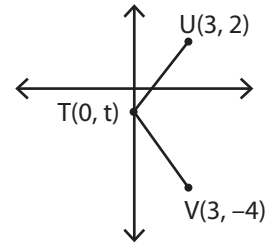


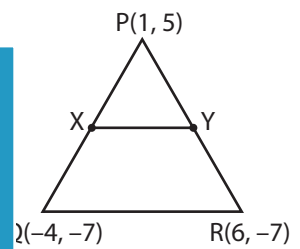
**Distance Formula**

- 1) A point  $(0, t)$  is equidistant from the points  $U(3, 2)$  and  $V(3, -4)$ . Find the value of  $t$ .



\_\_\_\_\_

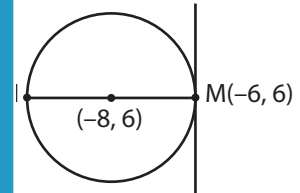
- 2)  $X$  and  $Y$  are the midpoints of  $\overline{PQ}$  and  $\overline{PR}$  respectively. Find the length of  $\overline{XY}$ .



\_\_\_\_\_

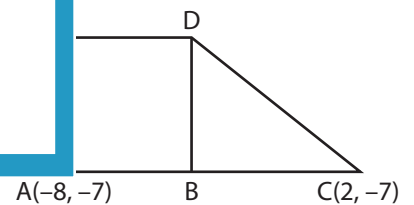
- 3) A tangent touches the circle at point  $M(-6, 6)$ . Find the radius of the circle.

\_\_\_\_\_



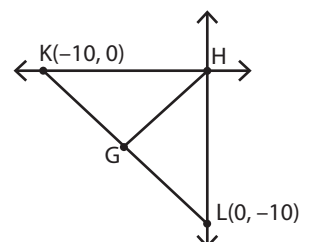
\_\_\_\_\_

- 4)  $ABDE$  is a rectangle. Find the length of  $\overline{DE}$ .



\_\_\_\_\_

- 5)  $G$  is the midpoint of the line segment  $KL$ .  $H$  is the origin. Find the length of  $\overline{GH}$ .



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# PREVIEW

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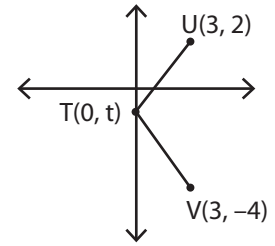
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## Distance Formula

Sheet 3

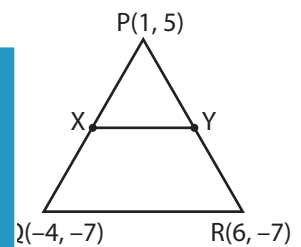
- 1) A point  $(0, t)$  is equidistant from the points  $U(3, 2)$  and  $V(3, -4)$ . Find the value of  $t$ .



**$t = -1$**

---

- 2) X and Y are the midpoints of  $\overline{PQ}$  and  $\overline{PR}$  respectively. Find the length of  $\overline{XY}$ .



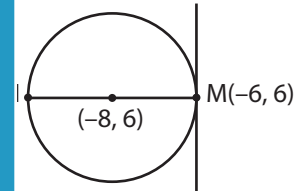
**$XY = 5$  units**

---

- 3) A tangent touches the circle at point M. Find the length of the radius  $\overline{OM}$ .

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radius of the circle.



**$MN = 4$  units**

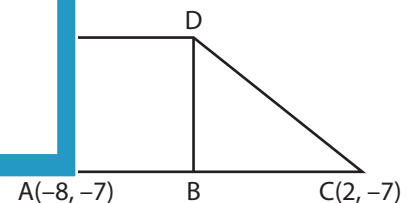
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- 4) ABDE is a rectangle. Find the length of  $\overline{DE}$ .

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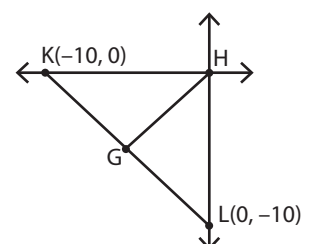
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**$DE = 5$  units**

---

- 5) G is the midpoint of the line segment  $\overline{KL}$ . H is the origin. Find the length of  $\overline{GH}$ .



**$GH = \sqrt{50} = 7.1$  units**

---