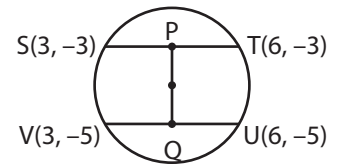


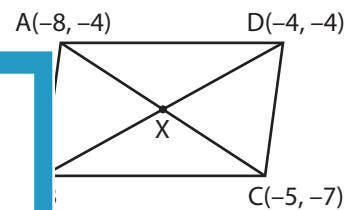
**Distance Formula**

- 1) P and Q are the midpoints of the chords  $\overline{ST}$  and  $\overline{UV}$  respectively. Find the distance between P and Q.



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- 2) X is a point of intersection of the diagonals of a parallelogram ABCD. Find the length of  $\overline{BD}$ .



# PREVIEW

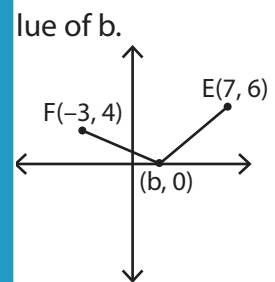
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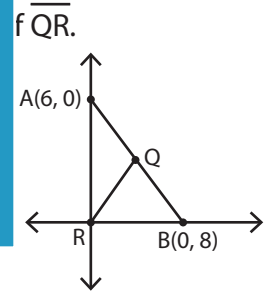
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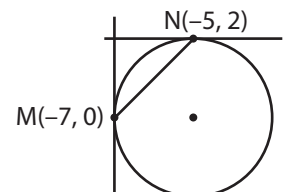
- 3) A point (b, 0) is equidistant from points F(-3, 4) and E(7, 6). Find the value of b.



- 4) Q is the midpoint of the hypotenuse of a right-angled triangle with vertices A(6, 0), B(0, 8), and R(0, 0). Find the length of  $\overline{QR}$ .



- 5) Two tangents touch the circle at the points M(-7, 0) and N(-5, 2). Find the length of the chord  $\overline{MN}$ .

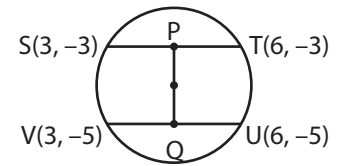


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## Distance Formula

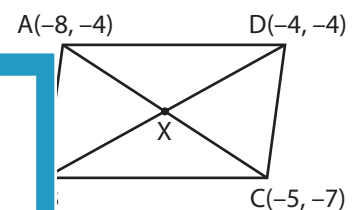
Sheet 1

- 1) P and Q are the midpoints of the chords  $\overline{ST}$  and  $\overline{UV}$  respectively. Find the distance between P and Q.



**PQ = 2 units**

- 2) X is a point of intersection of the diagonals of a parallelogram ABCD. Find the length of  $\overline{BD}$ .



**BD =  $\sqrt{34} \approx 5.83$  units**

- 3) A point  $(b, 0)$  is equidistant from points F(-3, 4) and E(7, 6).

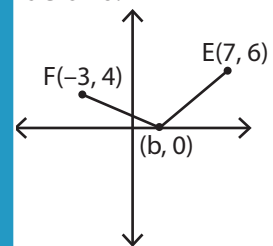
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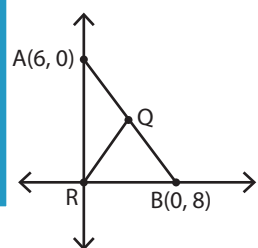
Find the value of b.



**b = 3**

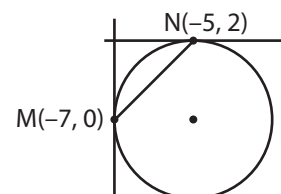
- 4) Q is the midpoint of  $\overline{AB}$ . Find the length of  $\overline{QR}$ .

Find the length of  $\overline{QR}$ .



**QR = 5 units**

- 5) Two tangents touch the circle at the points  $M(-7, 0)$  and  $N(-5, 2)$ . Find the length of the chord  $\overline{MN}$ .



**MN =  $\sqrt{8} \approx 2.83$  units**