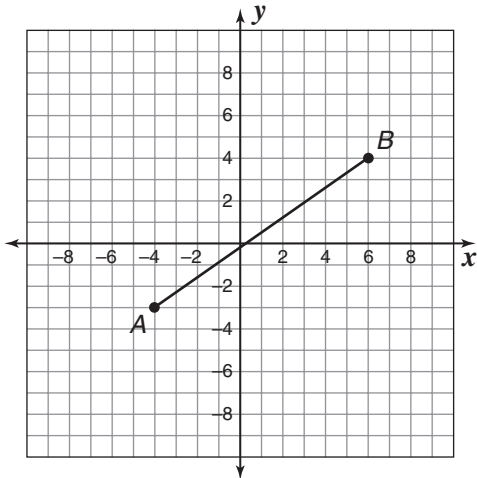


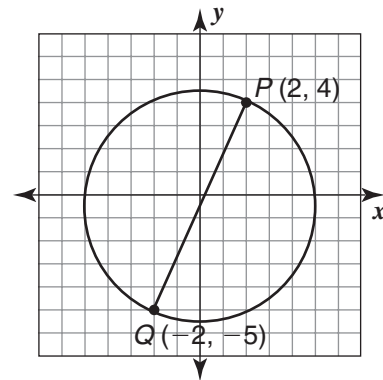
GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.1.1 Benchmark Pre-Test (Multiple Choice)

Use the graph for problems 1 and 2.



- The midpoint between two points $P_1(x_1, y_1)$ and $P_2(x_2, y_2)$ is $(\frac{x_2 + x_1}{2}, \frac{y_2 + y_1}{2})$. What is the midpoint of \overline{AB} ?
 - $(1, \frac{1}{2})$
 - $(\frac{1}{2}, 1)$
 - $(0, 0)$
 - $(2, 1)$
- The distance between two points $P_1(x_1, y_1)$ and $P_2(x_2, y_2)$ is $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$. What is the approximate length of \overline{AB} ?
 - 2.2 units
 - 4.1 units
 - 12.0 units
 - 12.2 units

Use the graph for problems 3 and 4.



- \overline{PQ} is a diameter of the circle shown. What is the approximate length of \overline{PQ} ?
 - 9.8 units
 - 9.2 units
 - 3.6 units
 - 1.0 unit
- What are the exact coordinates of the center of the circle?
 - $(0, 0)$
 - $(0, \frac{1}{2})$
 - $(0, -\frac{1}{2})$
 - $(-\frac{3}{2}, 2)$

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
10 MA.912.G.1.1 Benchmark Pre-Test (Gridded Response)

Use the Gridded Response Answer Sheet.

Use the information for problems 5–7.

Lucia drew a map of her neighborhood on a coordinate grid. Each unit on the grid represented 1 city block. She placed her house at $(4, 5)$ and the library at $(-2, -3)$ on the grid.

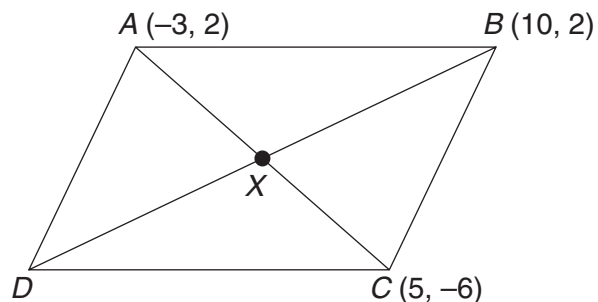
5. Lucia drew a straight line connecting her house and the library on the map. How many city blocks long is this path from Lucia's house to the library?

6. The post office is located exactly halfway between the library and Lucia's house on the path. If Lucia plots a point to show the location of the post office, what will the x -coordinate of the point be?

7. What will be the y -coordinate of the post office's location on the map?

8. A circle drawn on a coordinate grid has a diameter with endpoints at $(0, -6)$ and $(8, 0)$. Each unit on the grid represents 1 centimeter. How long is the diameter of the circle to the nearest tenth of a centimeter?

Use the parallelogram for problems 9 and 10.



9. The diagonals of parallelogram $ABCD$ intersect at point X . The x -coordinate of point X is 1. What is the y -coordinate of point X ?

10. What is the length of \overline{BD} to the nearest tenth of a unit?