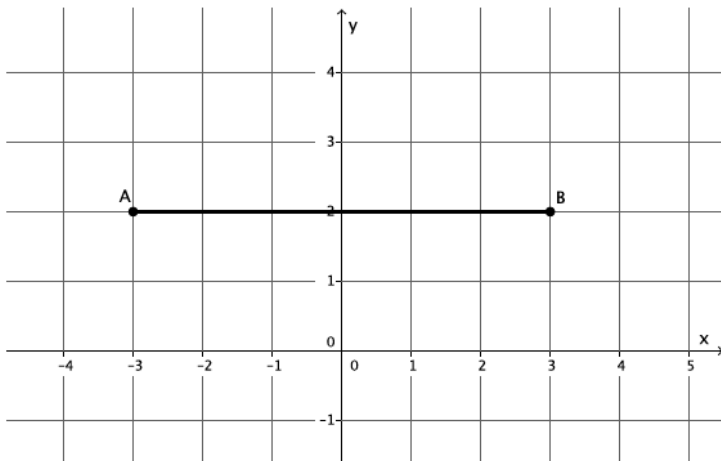


Lesson 17: Distance on the Coordinate Plane

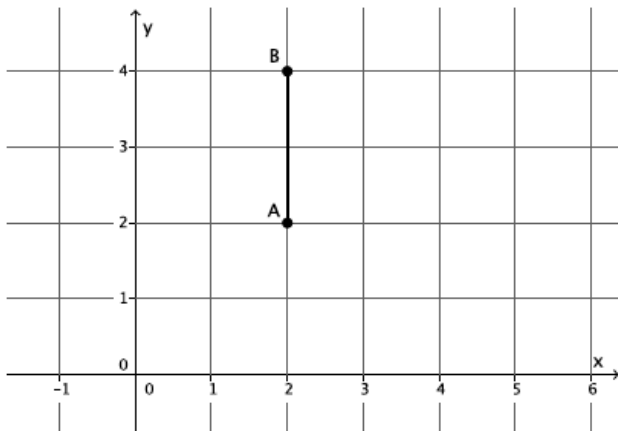
Classwork

Example 1

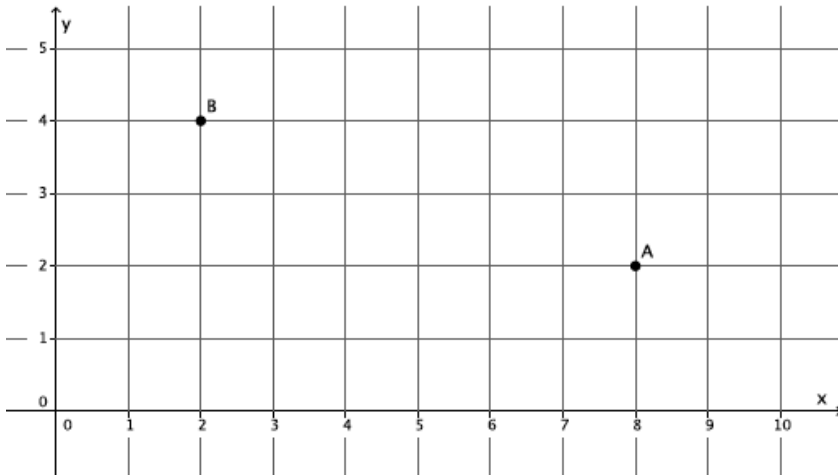
What is the distance between the two points A , B on the coordinate plane?



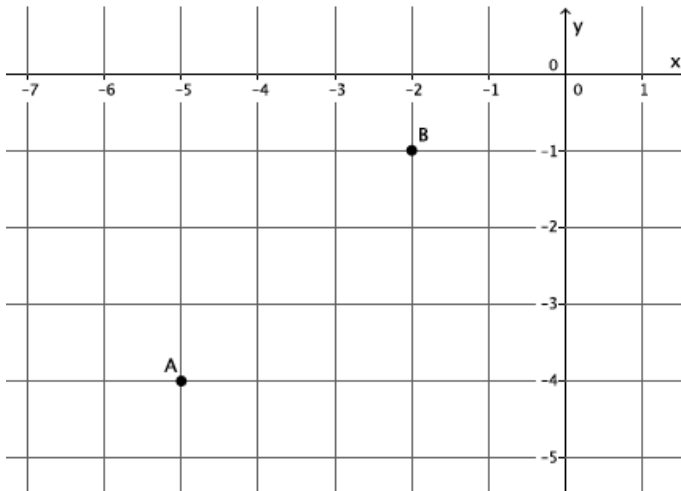
What is the distance between the two points A , B on the coordinate plane?



What is the distance between the two points A , B on the coordinate plane? Round your answer to the tenths place.



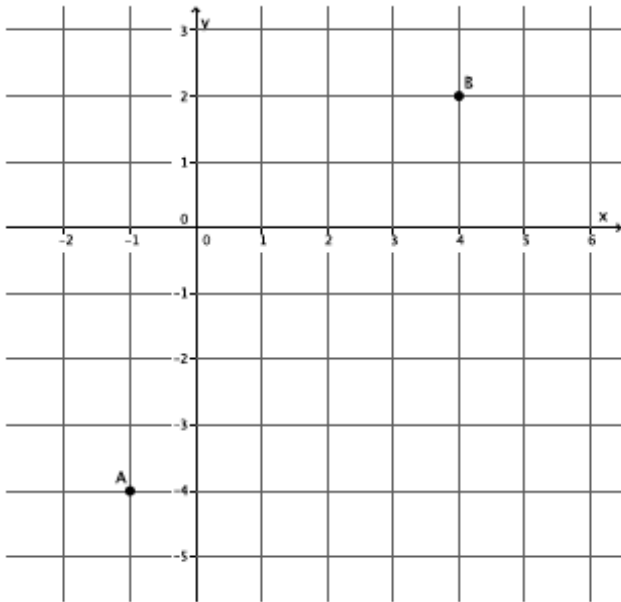
Example 2



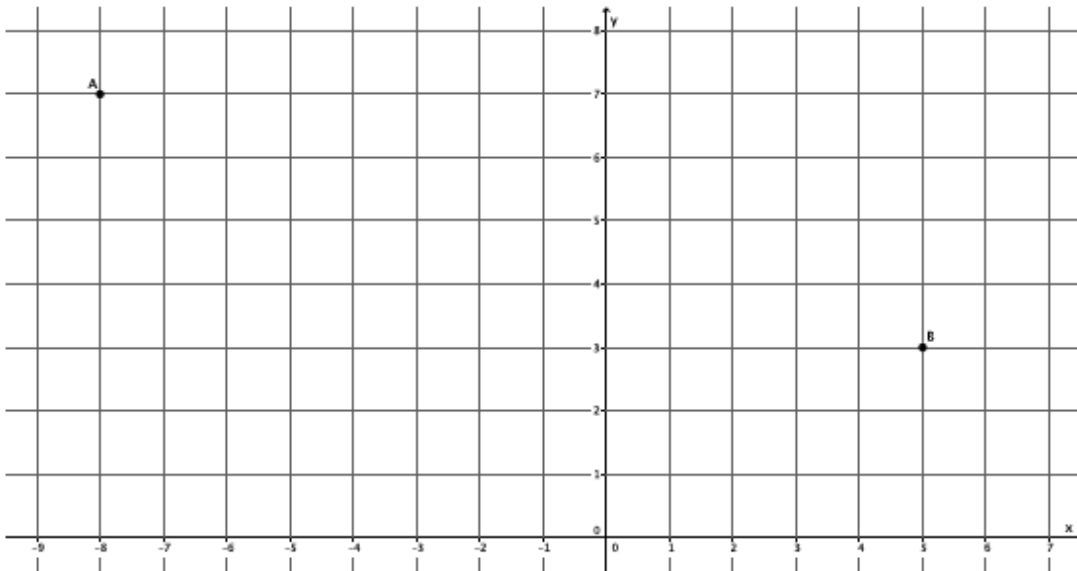
Exercises 1–4

For each of the Exercises 1–4, determine the distance between points A and B on the coordinate plane. Round your answer to the tenths place.

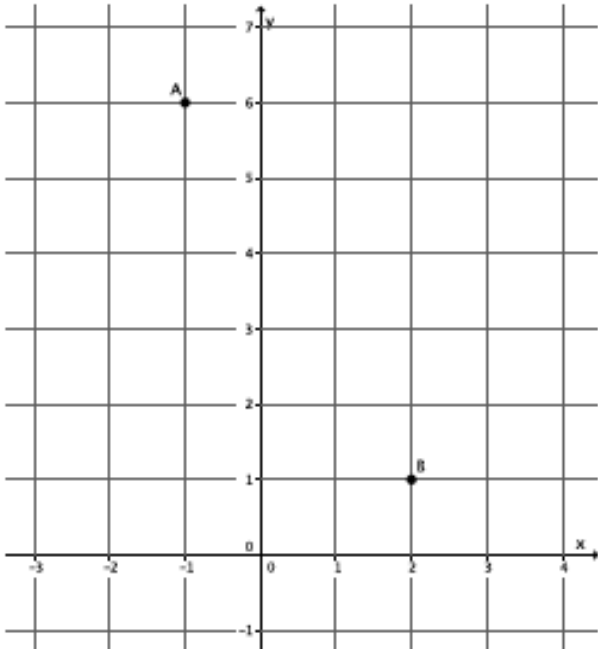
1.



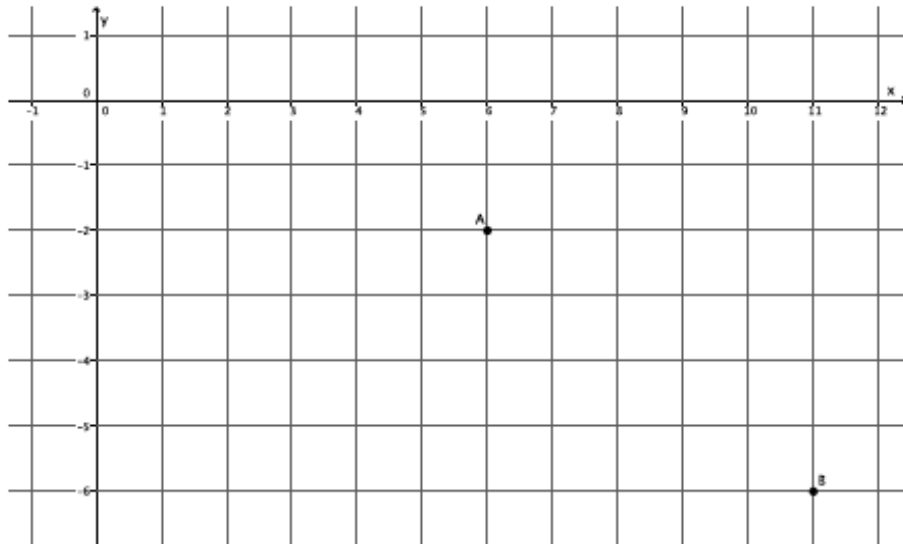
2.



3.

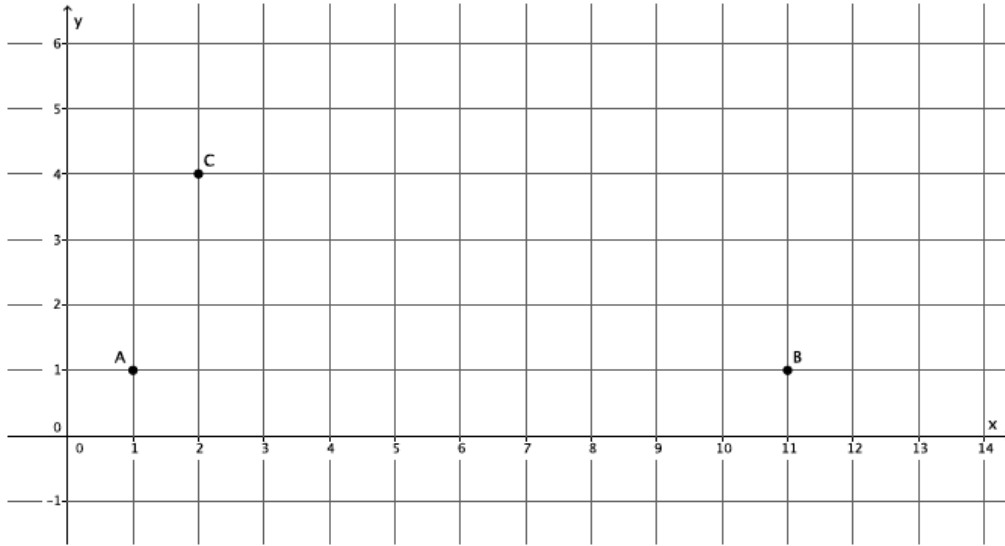


4.



Example 3

Is the triangle formed by the points A , B , C a right triangle?



Lesson Summary

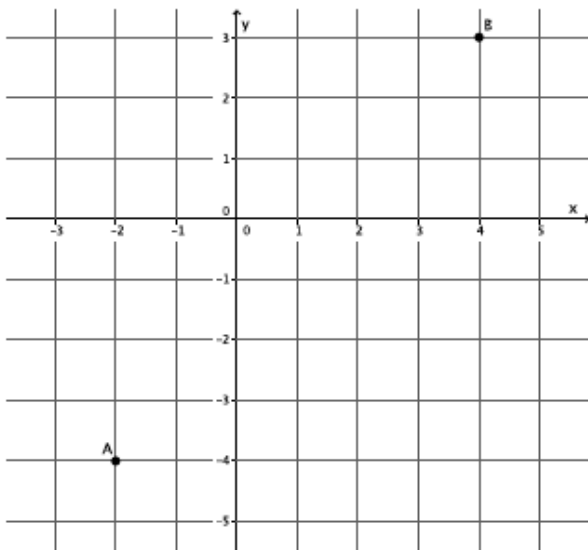
To determine the distance between two points on the coordinate plane, begin by connecting the two points. Then draw a vertical line through one of the points and a horizontal line through the other point. The intersection of the vertical and horizontal lines forms a right triangle to which the Pythagorean Theorem can be applied.

To verify if a triangle is a right triangle, use the converse of the Pythagorean Theorem.

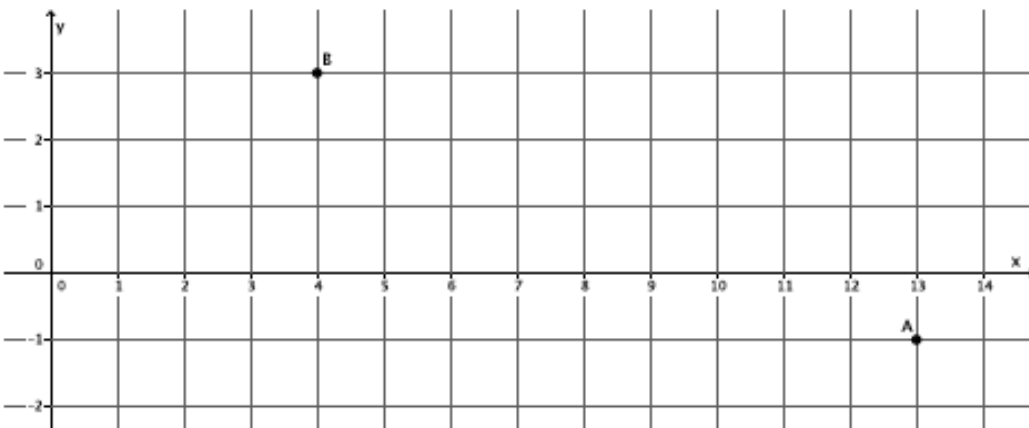
Problem Set

For each of the Problems 1–4 determine the distance between points *A* and *B* on the coordinate plane. Round your answer to the tenths place.

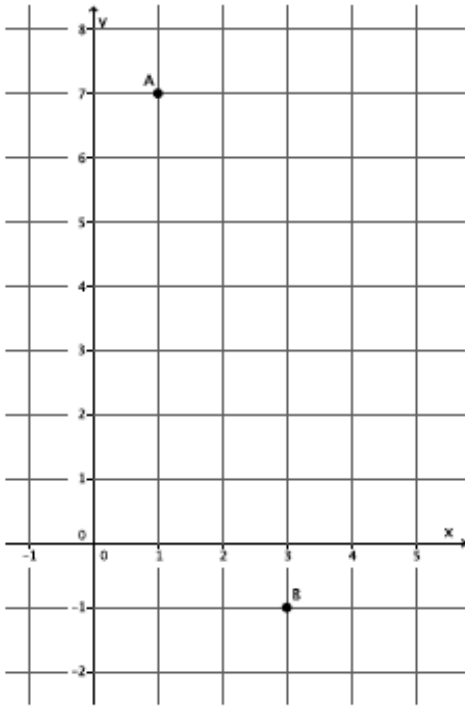
1.



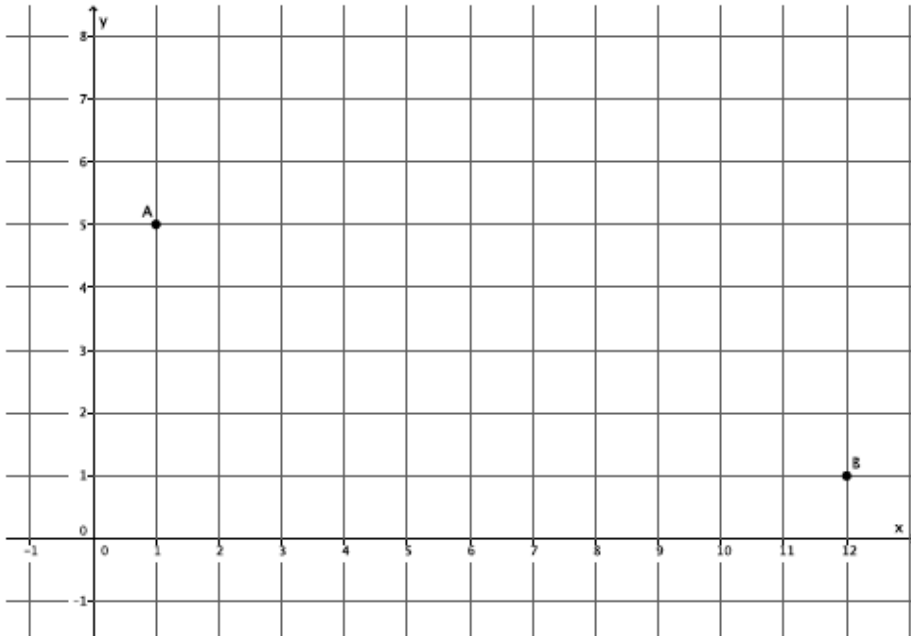
2.



3.



4.



5. Is the triangle formed by points A , B , C a right triangle?

