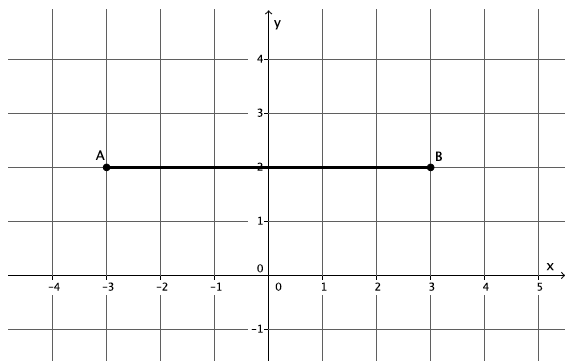
Lesson 17: Distance on the Coordinate Plane

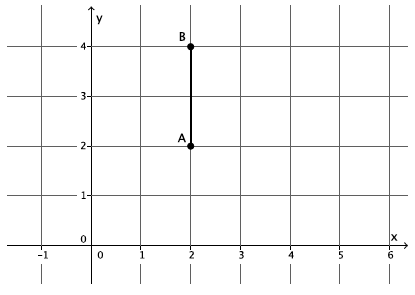
Classwork

**Example 1**

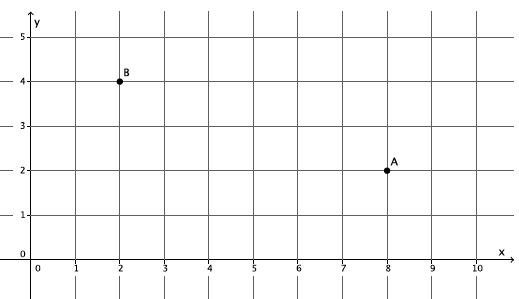
What is the distance between the two points , on the coordinate plane?



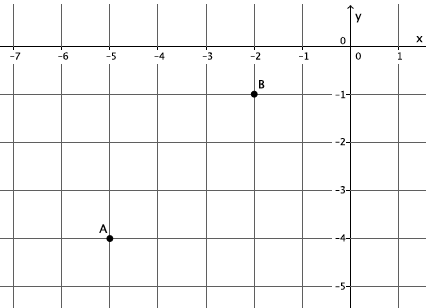
What is the distance between the two points on the coordinate plane?



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

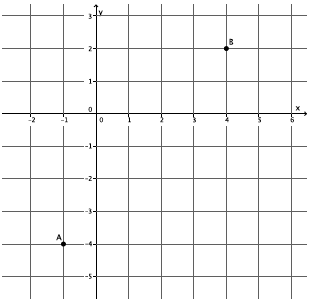


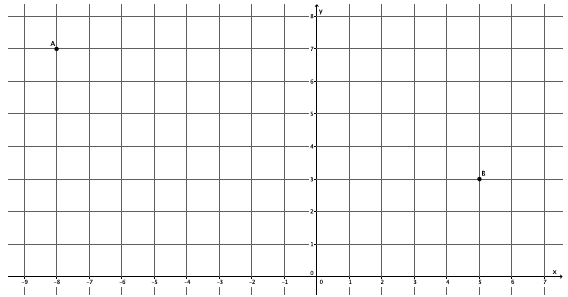
**Example 2**

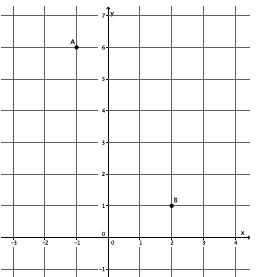


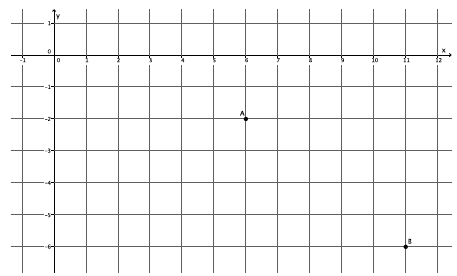
Exercises 1–4

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



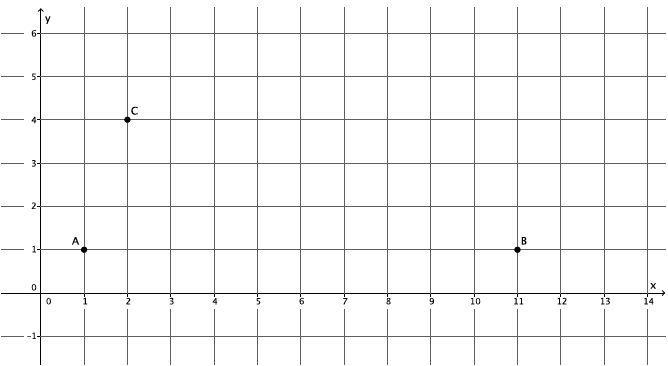






Example 3

Is the triangle formed by the points , , a right triangle?



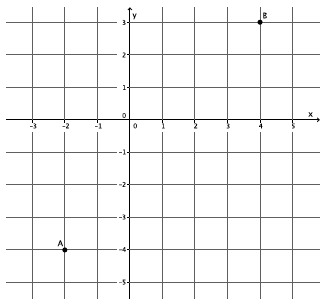
Problem Set

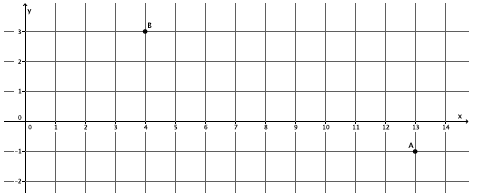
Lesson Summary

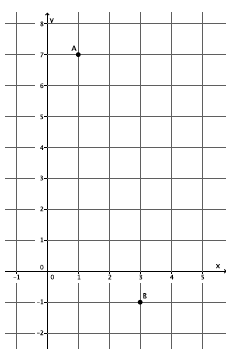
To determine the distance between two points on the coordinate plane, begin by connecting the two points. Then draw a vertical line through one of the points and a horizontal line through the other point. The intersection of the vertical and horizontal lines forms a right triangle to which the Pythagorean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

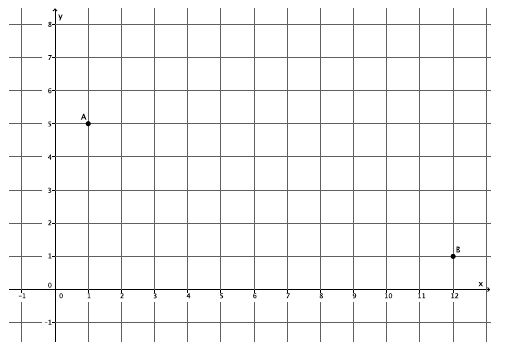
To verify if a triangle is a right triangle, use the converse of the Pythagorean Theorem.

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









1. Is the triangle formed by points ,, a right triangle?

