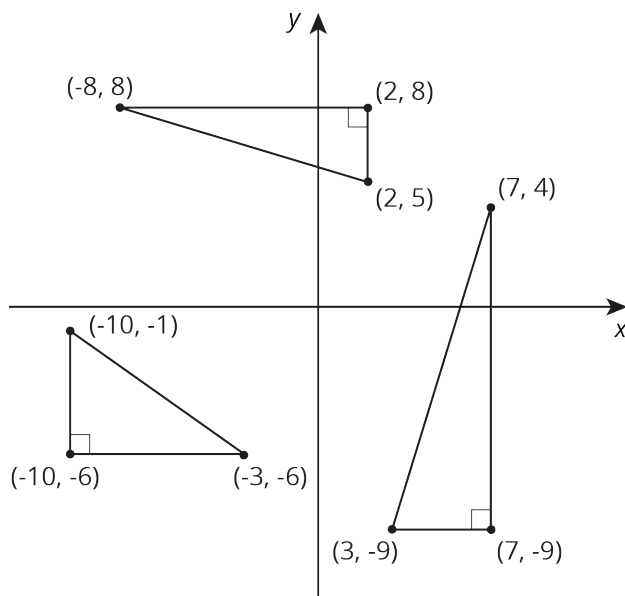# Lesson 11 Practice Problems

1. The right triangles are drawn in the coordinate plane, and the coordinates of their vertices are labeled. For each right triangle, label each leg with its length.

Grade 8 Unit 8
Lesson 11

CC BY Open Up Resources. Adaptations CC BY IM.

1

2. Find the distance between each pair of points. If you get stuck, try plotting the points on graph paper.

    a. $M = (0, \text{-}11)$ and $P = (0, 2)$

    b. $A = (0, 0)$ and $B = (\text{-}3, \text{-}4)$

    c. $C = (8, 0)$ and $D = (0, \text{-}6)$

3.   a. Find an object that contains a right angle. This can be something in nature or something that was made by humans or machines.
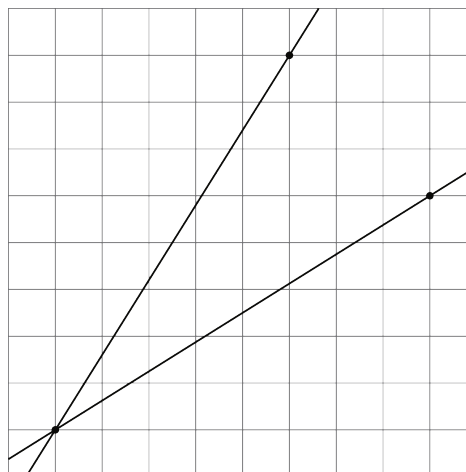
    b. Measure the two sides that make the right angle. Then measure the distance from the end of one side to the end of the other.

    c. Draw a diagram of the object, including the measurements.

    d. Use the Pythagorean Theorem to show that your object really does have a right angle.
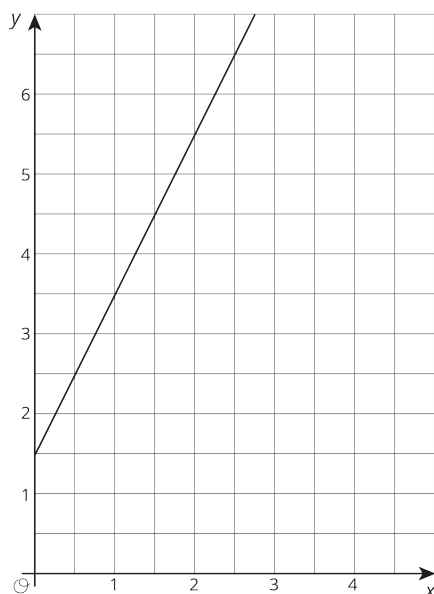
(From Unit 8, Lesson 9.)

Grade 8 Unit 8

Lesson 11

CC BY Open Up Resources. Adaptations CC BY IM.

2

4. Which line has a slope of 0.625, and which line has a slope of 1.6? Explain why the slopes of these lines are 0.625 and 1.6.

(From Unit 2, Lesson 10.)

5. Write an equation for the graph.

(From Unit 3, Lesson 7.)

Grade 8 Unit 8
Lesson 11

CC BY Open Up Resources. Adaptations CC BY IM.

3