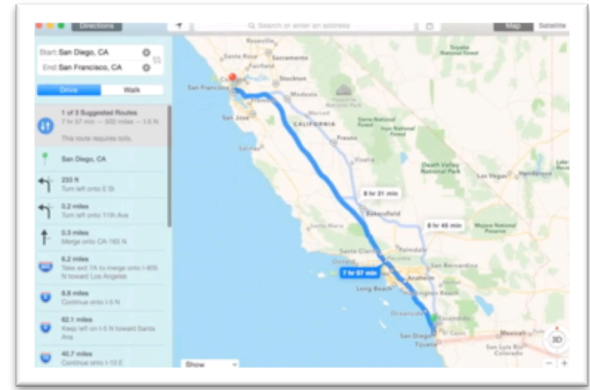Name: _____

Lesson Guide

This lesson guide accompanies the following video lesson:

Distance Formula

▶ **Key Questions and Info:**

What is distance?

In math, distance is the _____ between a starting point and an ending point.

Distance is a measure of _____.

Distance is measured in _____.

▶ **KEY FORMULA:**
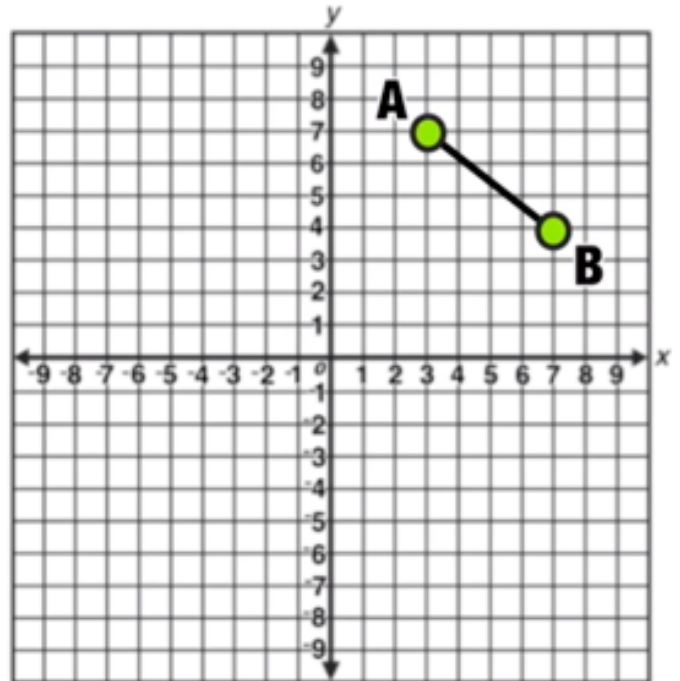
Distance Formula

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

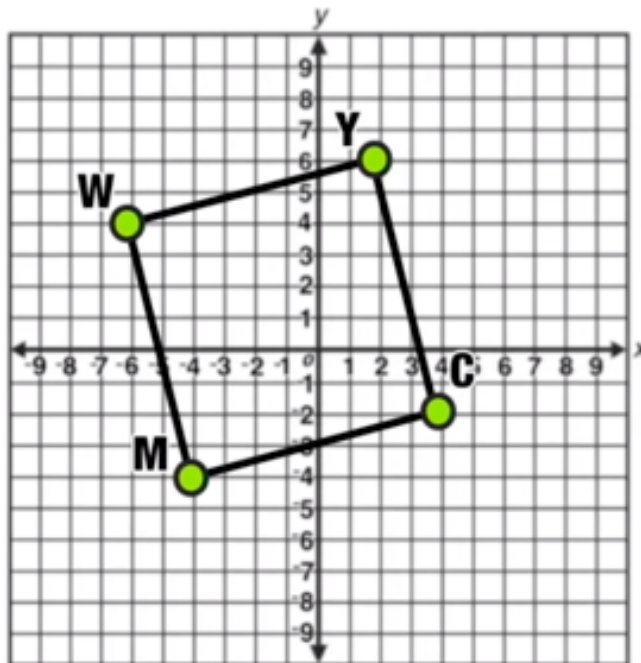# Find the length of $\overline{AB}$.

$$A(3,7) \quad B(7,4)$$

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

My Answer = _____

Example 02:

Observe figure WYCM on the graph. What is the length of WC to the nearest tenth decimal place.

My Answer = _____

▶ **Example 03: Your Turn!**

Find the distance between each pair of points (round your answer to the nearest tenths decimal place)
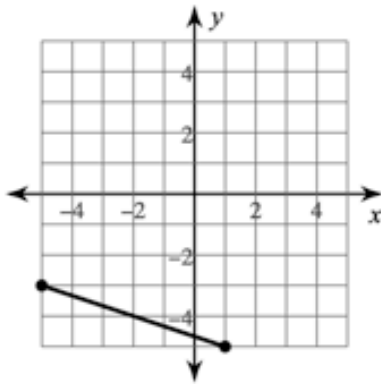
1) $(8, 2), (-8, 0)$

2) $(-2, -1), (2, 0)$
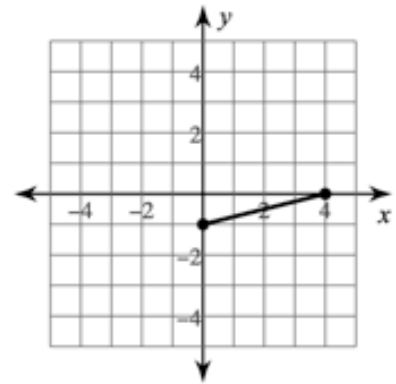
3) $(-3, -4), (0, -2)$

4) $(-2, 7), (-8, 3)$

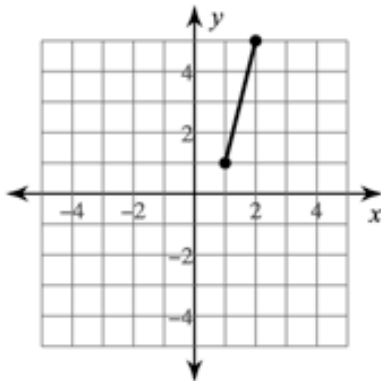5) $(-6, 8), (2, -8)$

6) $(0, -6), (-4, -7)$

7)

8)

9)

10)

1.) **5**

2.) **11.7**

3.)

1) 16.1	2) 4.1	3) 3.6	4) 7.2
5) 17.9	6) 4.1	7) 6.3	8) 4.1
9) 4.1	10) 3.6		