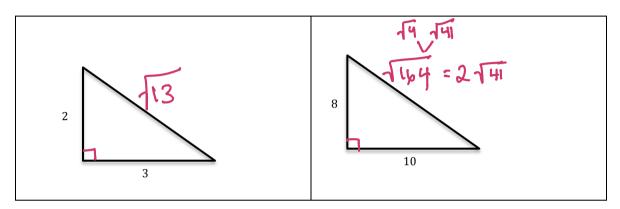
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Mr. Rogove	Date:

LEARNING OBJECTIVE: We will use the Pythagorean Theorem to determine the distance between two points on the coordinate plane. (G8M7L11)

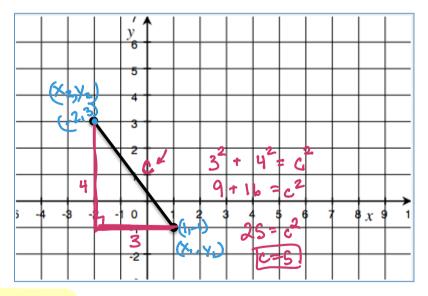
ACTIVATING PRIOR KNOWLEDGE:

We can use the Pythagorean Theorem to find the length of missing sides of a right triangle.



CONCEPT DEVELOPMENT:

If we had a coordinate plane, could we use the Pythagorean Theorem somehow to help us find the distance of the hypotenuse of a right triangle? How??



The Distance Formula:

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

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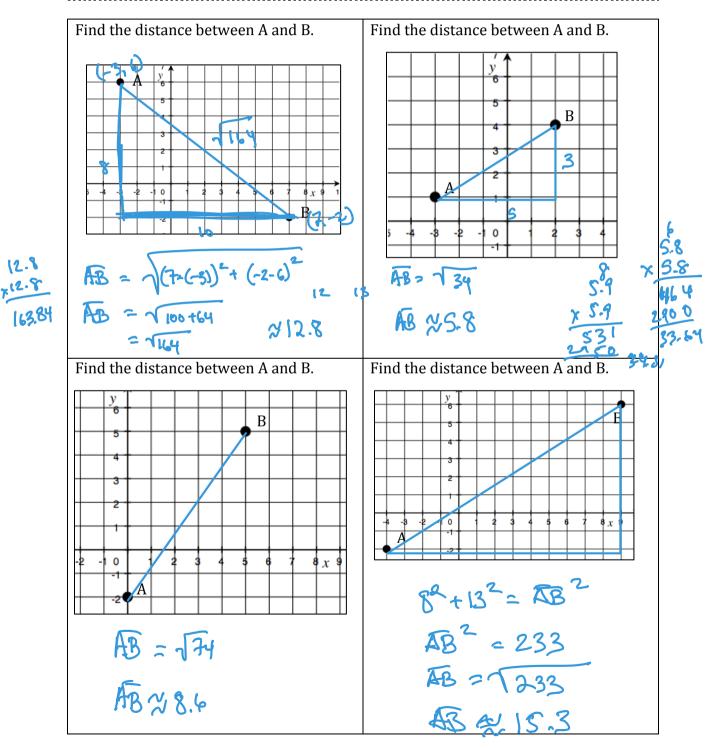
GUIDED PRACTICE:

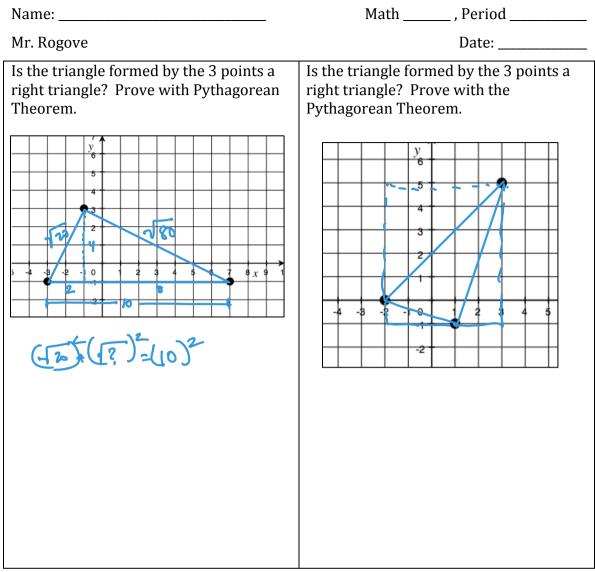
Steps for Finding the Distance Between 2 Points on the Coordinate Plane

1. Draw a right triangle, using the given diagonal length as your hypotenuse.

2. Use the Pythagorean Theorem $(a^2 + b^2 = c^2)$ to determine the length of the hypotenuse.

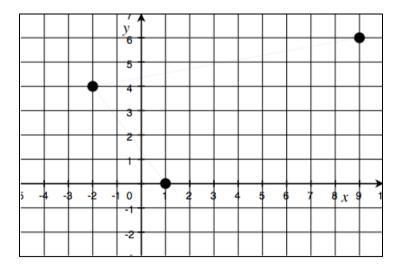
3. Estimate the hypotenuse to the nearest tenth of a unit.





CLOSURE:

IS this a right triangle? How do you know?



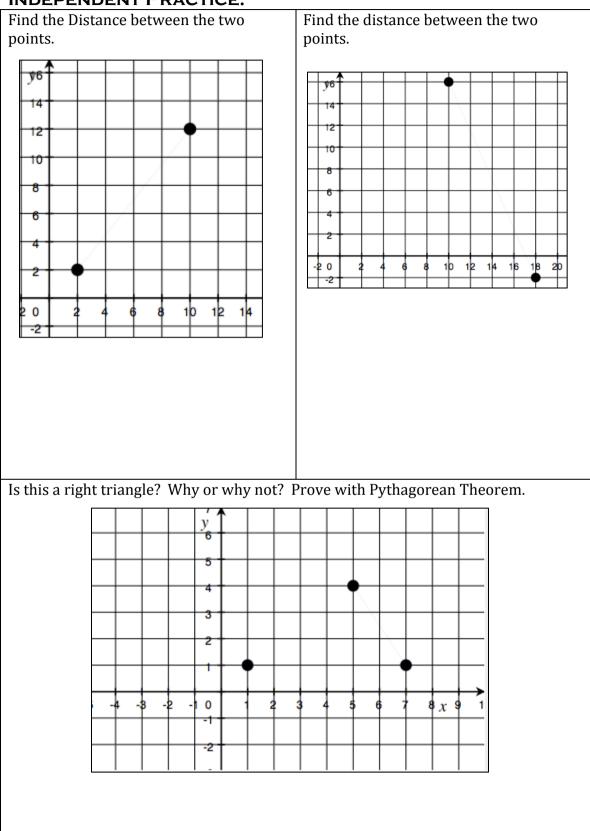
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Date: _____

INDEPENDENT PRACTICE:



Mr. Rogove

Math	, Period _	

Date: _____

NOTES: Lesson 17, Module 7 Grade 8