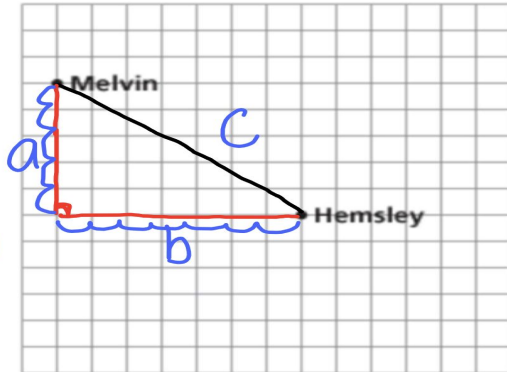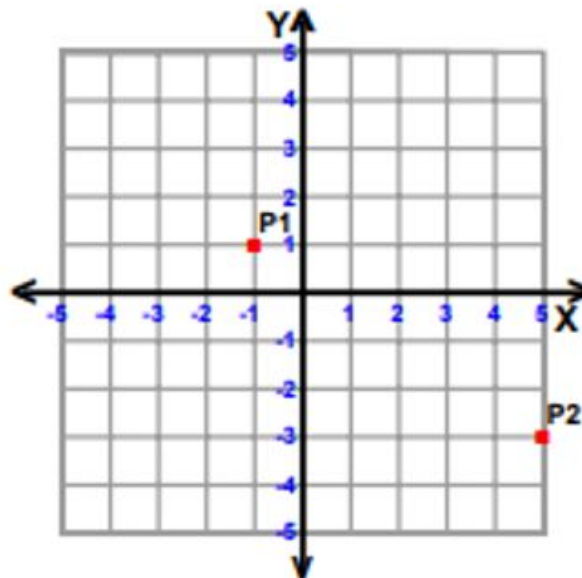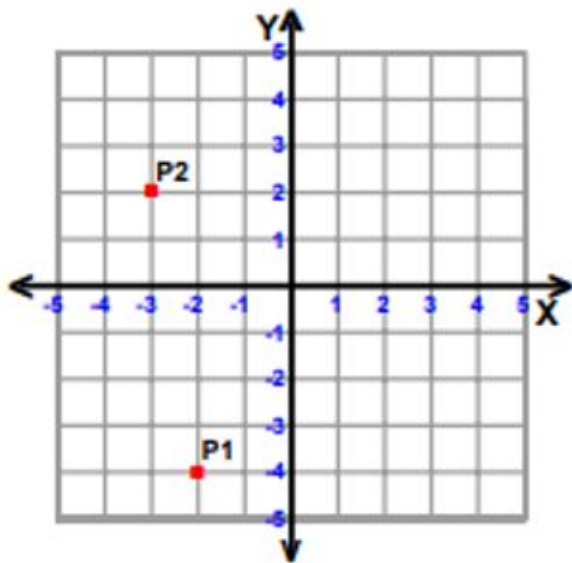# Day 2: Pythagorean Theorem on a Coordinate Plane Lesson

Find the missing side length (hypotenuse) of a right triangle. With the coordinate plane, count the boxes for the side lengths. Then, use pythagorean theorem.

The towns of Melvin and Hemsley are shown on the map. Look at the map. If the distance between the grid lines represents 1 km, what is the distance between the two towns?

$$a^2 + b^2 = c^2$$
$$5^2 + 7^2 = c^2$$
$$25 + 49 = c^2$$
$$\sqrt{74} = \sqrt{c^2}$$
$$8.60 \approx c$$
$$km$$

Melvin

a

C

b

Hemsley

Directions: Use the pythagorean theorem to find the distance between the two points (missing side length).

P2

P1

P1

P2

Lesson Extra Practice Resources:

Online Activity:
Math Games

Video:
Khan Academy Video