

NAME: _____

CLASS: _____

Geometry Lab 3

Finding Distance with Coordinates

1. Plot the points A(2, 5), B(7, 17)
2. Draw line segment AB.
3. Using AB as the hypotenuse, construct a right triangle.
4. Call the third point of the right triangle point C.
5. Find the coordinates of C. C (____, ____)
6. Use the coordinates of A, B, and C to find the length of the legs of the right triangle AC and BC.
7. Use the Pythagorean Theorem to find the length of AB.
8. Write a formula for the length of the hypotenuse using the coordinates of points A, B and C and not the lengths of the legs, AC and BC.