Vocabulary

Gizmos

- <u>Coordinates</u> a set of numbers that names the location of a point.
 - In the two-dimensional coordinate plane, it takes two numbers (x, y) to specify a location.
 - The (x, y) coordinates of a point are called an ordered pair.
 - The coordinates of the point in the figure shown to the right are (3, 4).



- <u>Distance formula</u> a formula that can be used to find the distance *d* between two points with coordinates (x_1, x_2) and (y_1, y_2) .
 - The distance formula is $d = \sqrt{(x_2 x_1)^2 + (y_2 y_1)^2}$.
- <u>Hypotenuse</u> the side of a right triangle opposite the right angle.
- <u>Pythagorean Theorem</u> a theorem stating that, for any right triangle, $a^2 + b^2 = c^2$, where *a* and *b* are the lengths of the legs of the triangle and *c* is the length of the hypotenuse.

