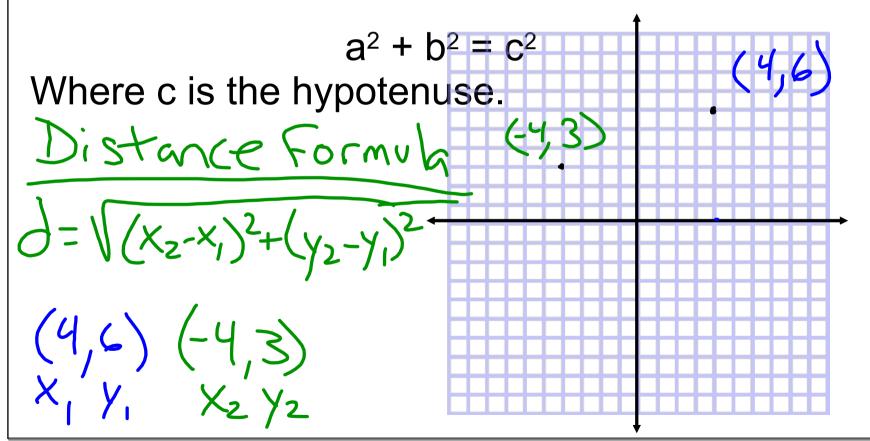
TODAY'S AGENDA: Week of April 30- May 4

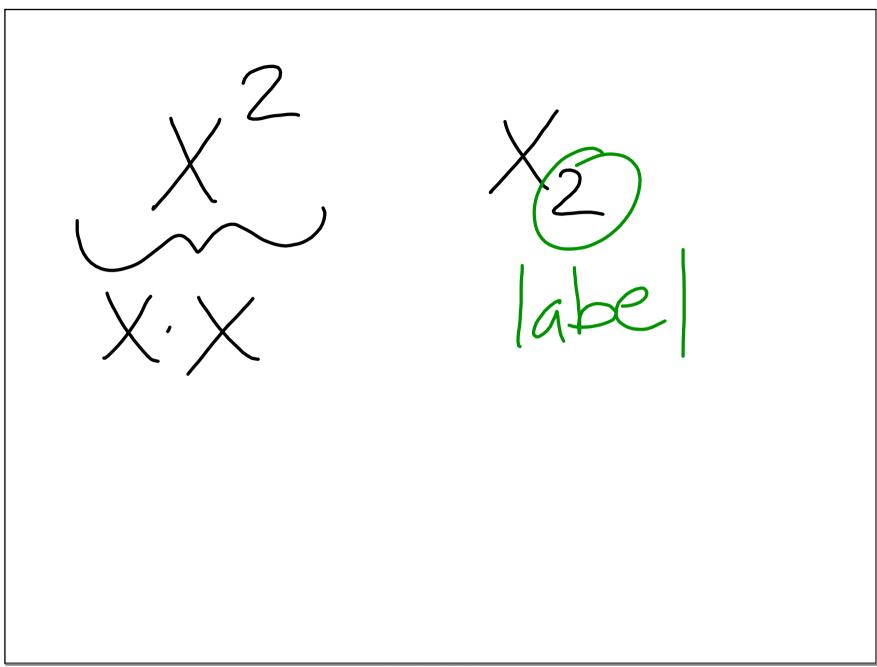
- Work on Khan Academy Mission:
- Whole Class Lessons
- Today's Objective:
- Distance Formula
- Midpoint and Dividing Line Segments

- Standards:
- G.SRT.C.8:
- Use sine, cosine, tangent, the Pythagorean Theorem and properties of special right triangles to solve right triangles in applied problems.

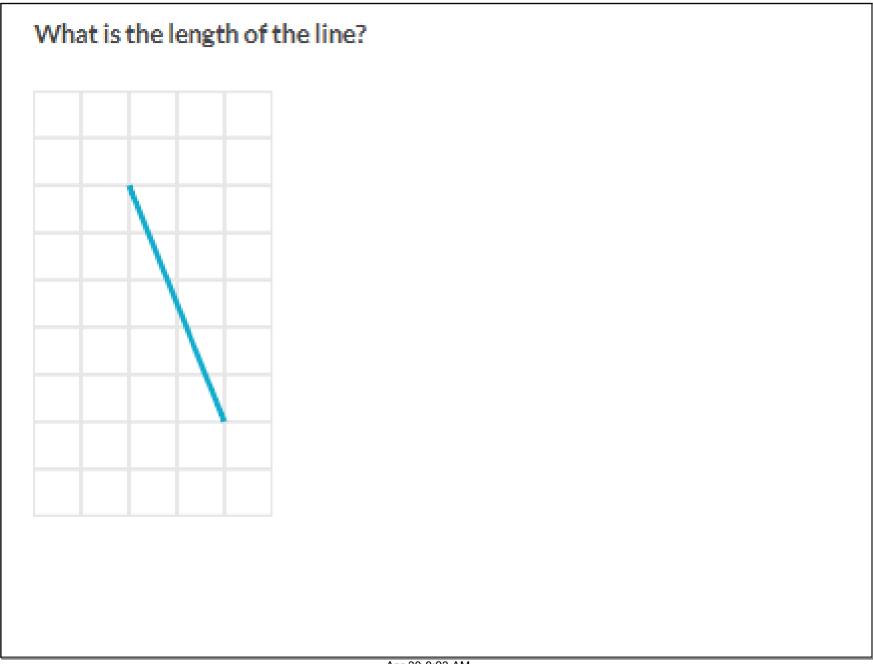
Finding the Distance Between Two Points

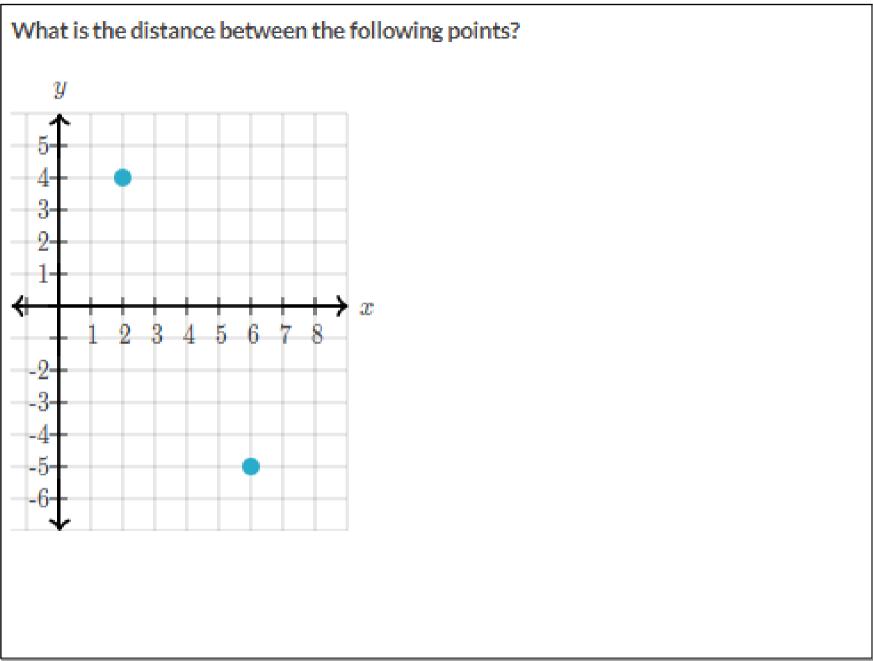
 Use the Pythagorean Theorem to find the distance between two points.





Distance Formula Pythagorean Thm 22+h2=C What's the distance between (8, -3) and (4, -7)?

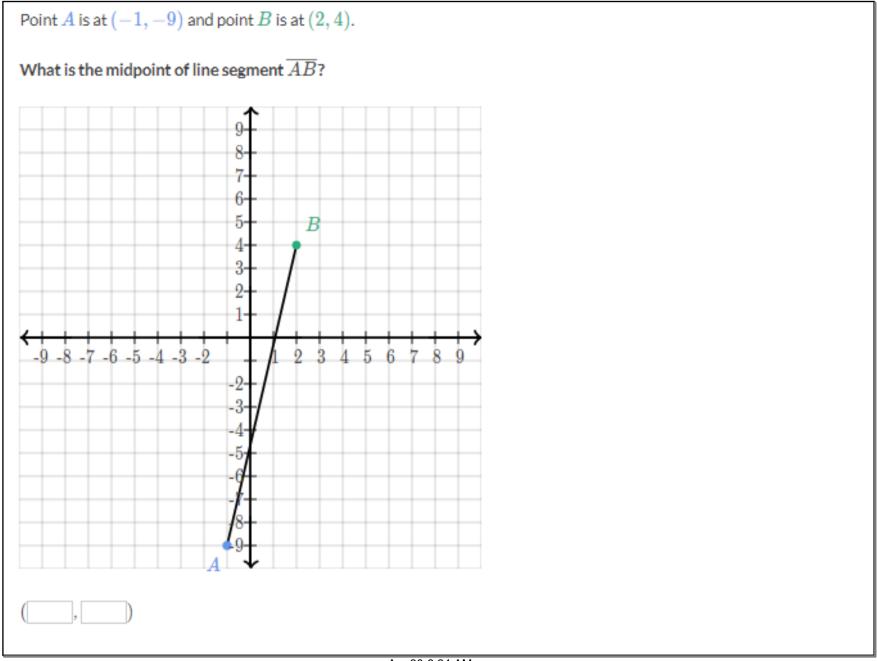


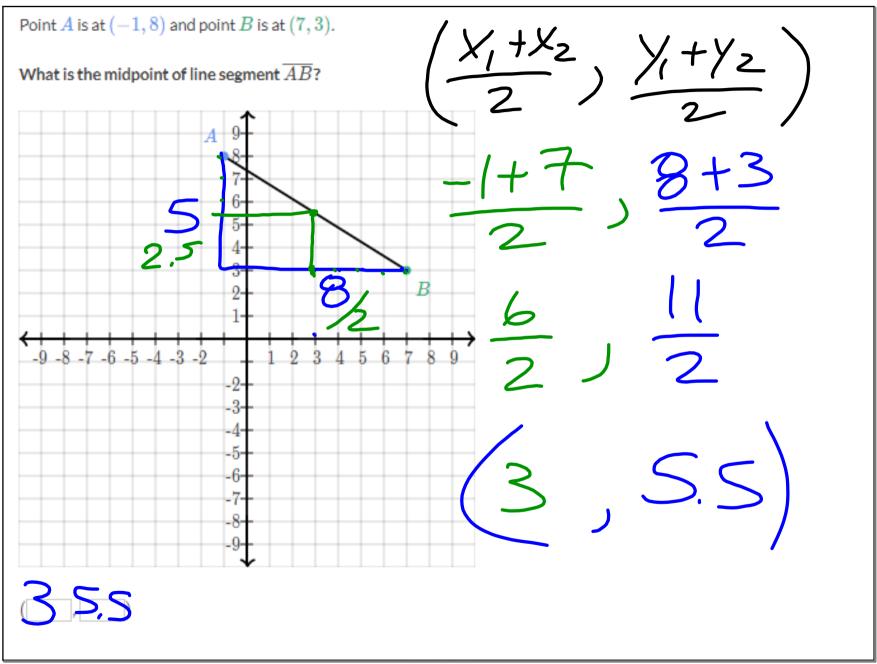


Midpoint Formula

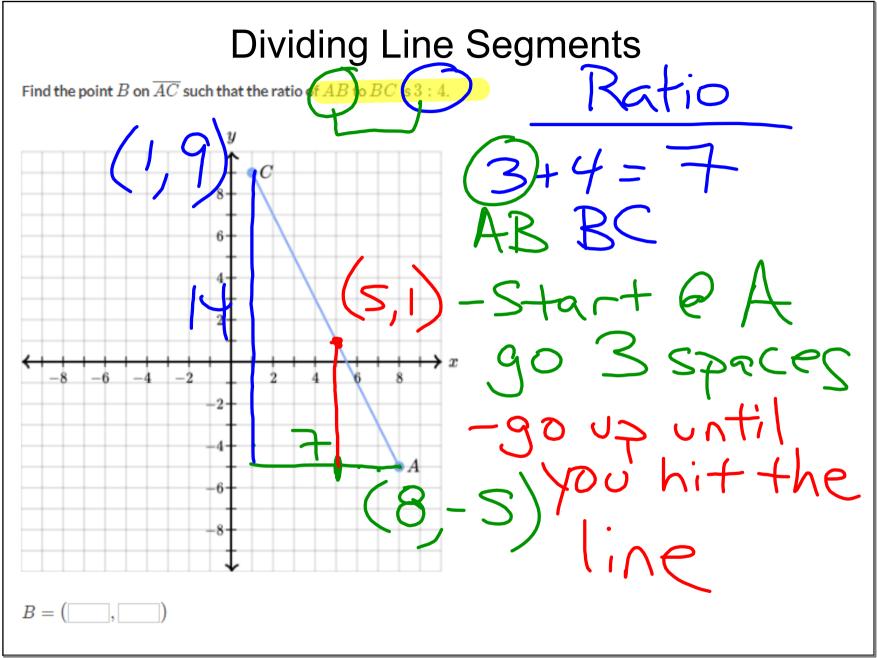
- The *Midpoint* is the point on a line that is exactly in the middle of the line, separating the line into two equal parts.
- The Midpoint Formula is:

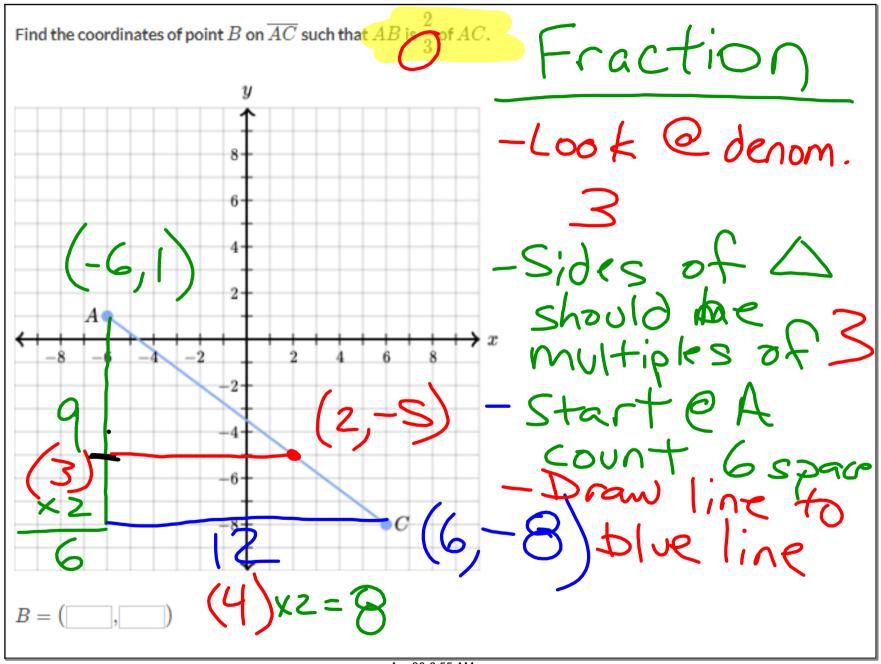
$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

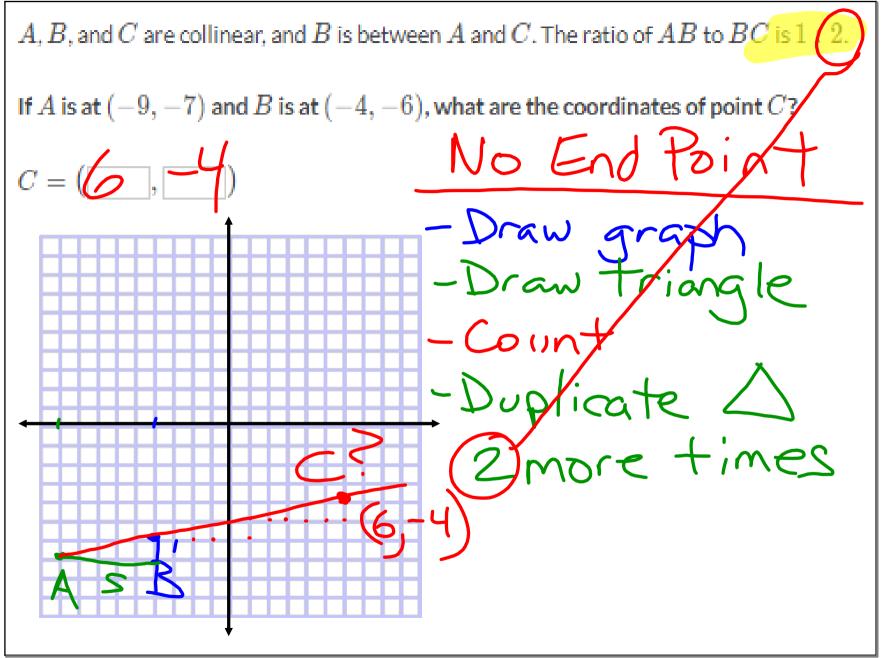


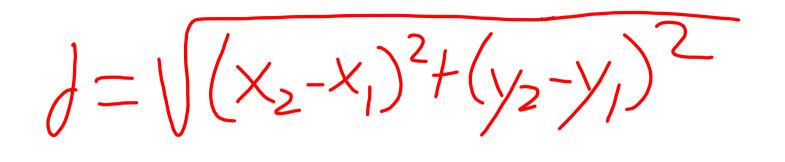


Point A is at (-1, -9) and point M is at (0.5, -2.5). Point M is the midpoint of point A and point B. What are the coordinates of point B?









A,B, and C are collinear, and B is between A and C. The ratio of AB to AC is 3:4.

If A is at (-8,1) and B is at (-2,-2), what are the coordinates of point C?

Skills You Should Be Working on:

- 1. Distance Between Two Points
- 2. Midpoint Formula
- 3. Divide Line Segments