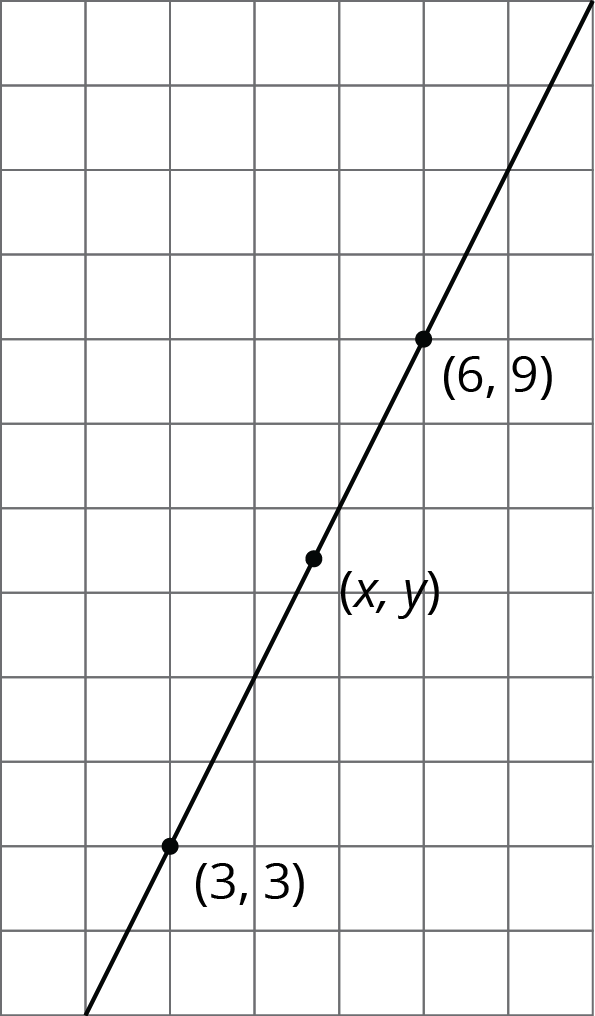
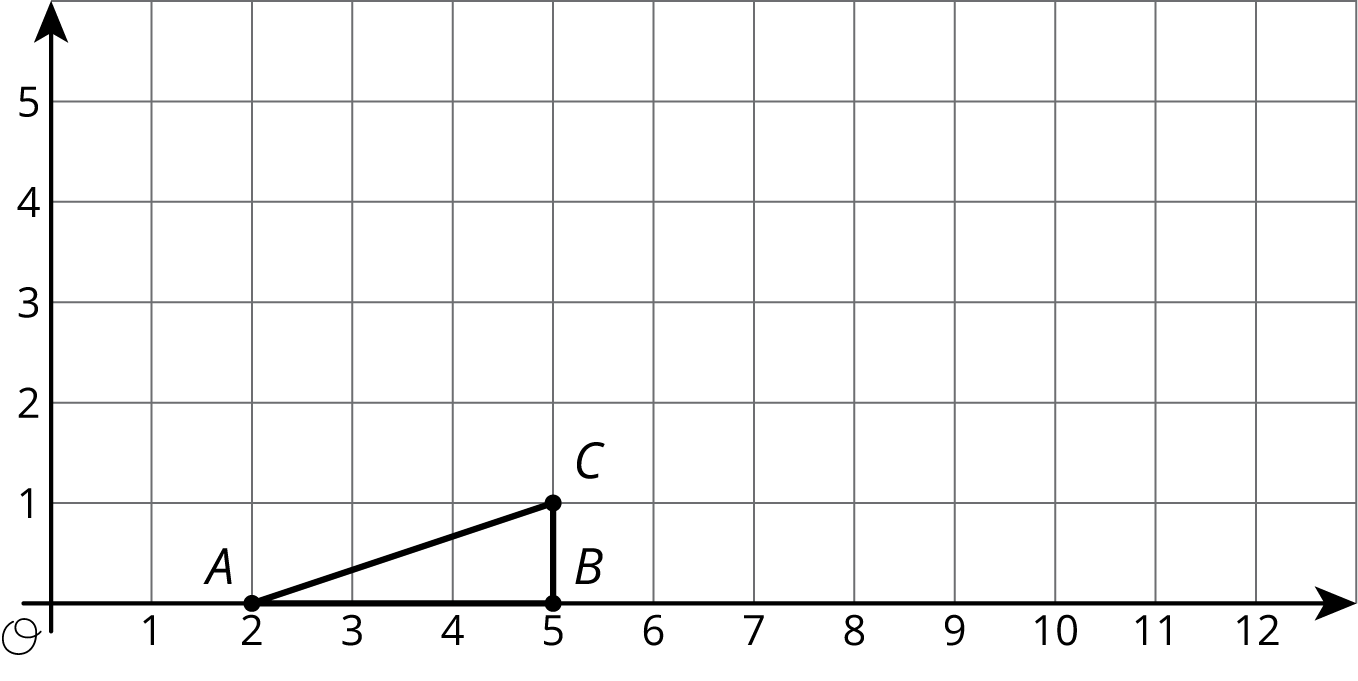
### Lesson 12 Practice Problems

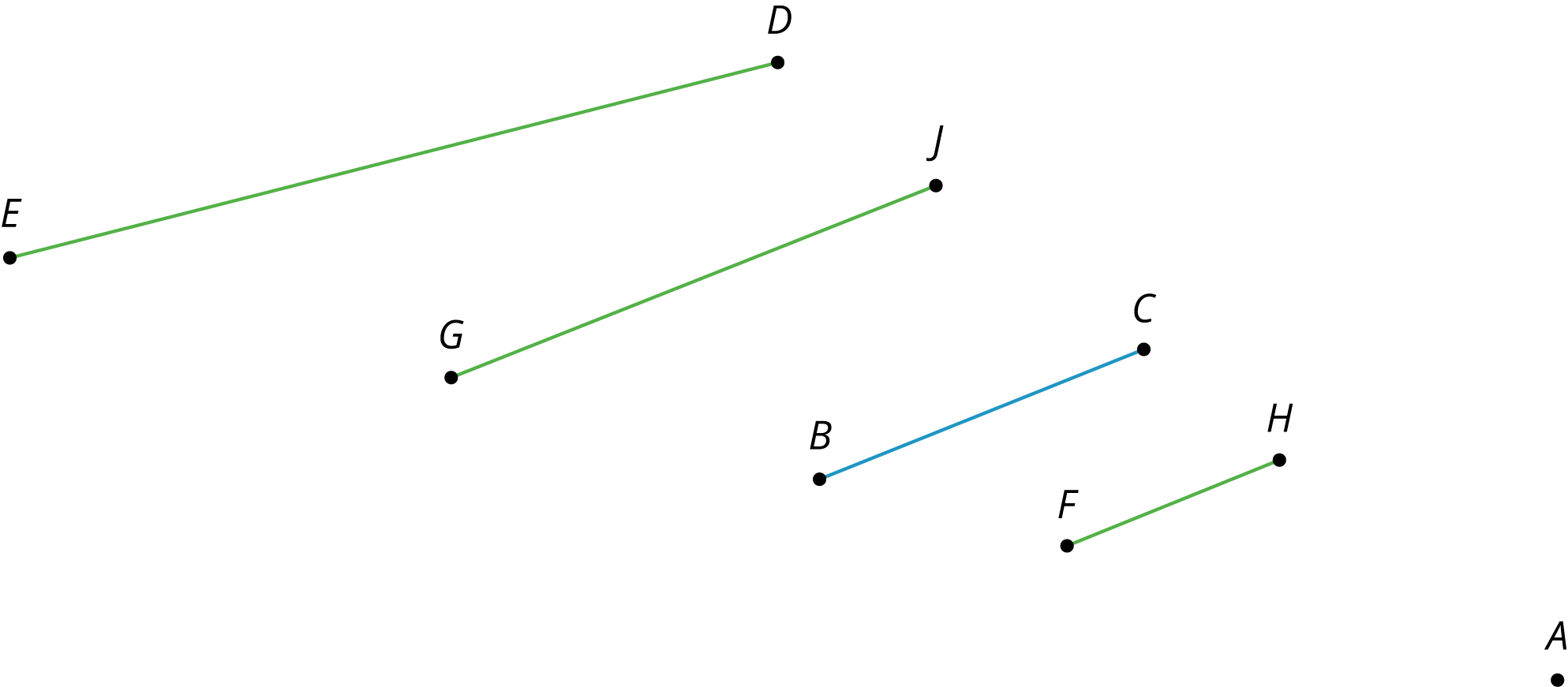
1. Select **all** the points that are on the line through and .
2. All three points displayed are on the line. Find an equation relating and .

* 

1. Here is triangle .

* 
  1. Draw the dilation of triangle with center and scale factor 2.
  2. Draw the dilation of triangle with center and scale factor 3.
  3. Draw the dilation of triangle with center and scale factor .
  4. What are the coordinates of the image of point when triangle is dilated with center and scale factor ?
  5. Write an equation for the line containing all possible images of point .

1. Here are some line segments.

* 
  1. Which segment is a dilation of using as the center of dilation and a scale factor of ?
  2. Which segment is a dilation of using as the center of dilation and a scale factor of ?
  3. Which segment is not a dilation of , and how do you know?
* (From Unit 2, Lesson 4.)



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