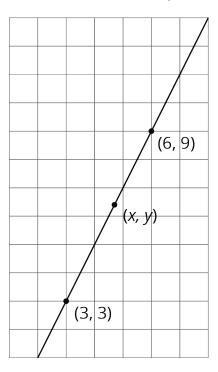
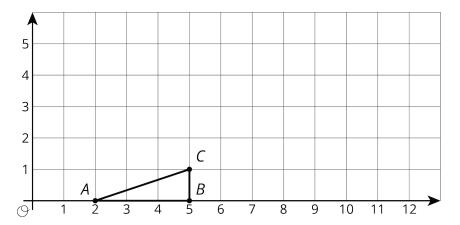


Lesson 12 Practice Problems

- 1. Select **all** the points that are on the line through (0,5) and (2,8).
 - A. (4, 11)
 - B. (5, 10)
 - C. (6, 14)
 - D. (30, 50)
 - E. (40, 60)
- 2. All three points displayed are on the line. Find an equation relating x and y.



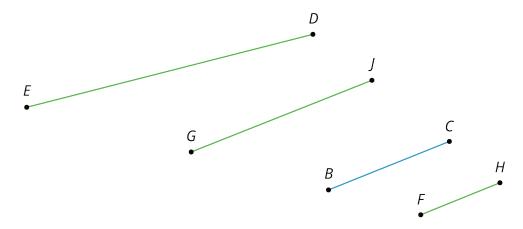
3. Here is triangle ABC.



- a. Draw the dilation of triangle ABC with center (2,0) and scale factor 2.
- b. Draw the dilation of triangle ABC with center (2,0) and scale factor 3.
- c. Draw the dilation of triangle *ABC* with center (2,0) and scale factor $\frac{1}{2}$.
- d. What are the coordinates of the image of point C when triangle ABC is dilated with center (2,0) and scale factor s?
- e. Write an equation for the line containing all possible images of point C.



4. Here are some line segments.



- A
- a. Which segment is a dilation of \overline{BC} using A as the center of dilation and a scale factor of $\frac{2}{3}$?
- b. Which segment is a dilation of \overline{BC} using A as the center of dilation and a scale factor of $\frac{3}{2}$?
- c. Which segment is not a dilation of \overline{BC} , and how do you know?

(From Unit 2, Lesson 4.)