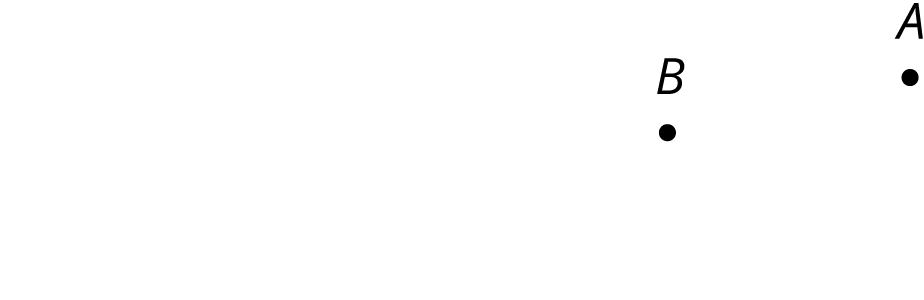
### Lesson 3 Practice Problems

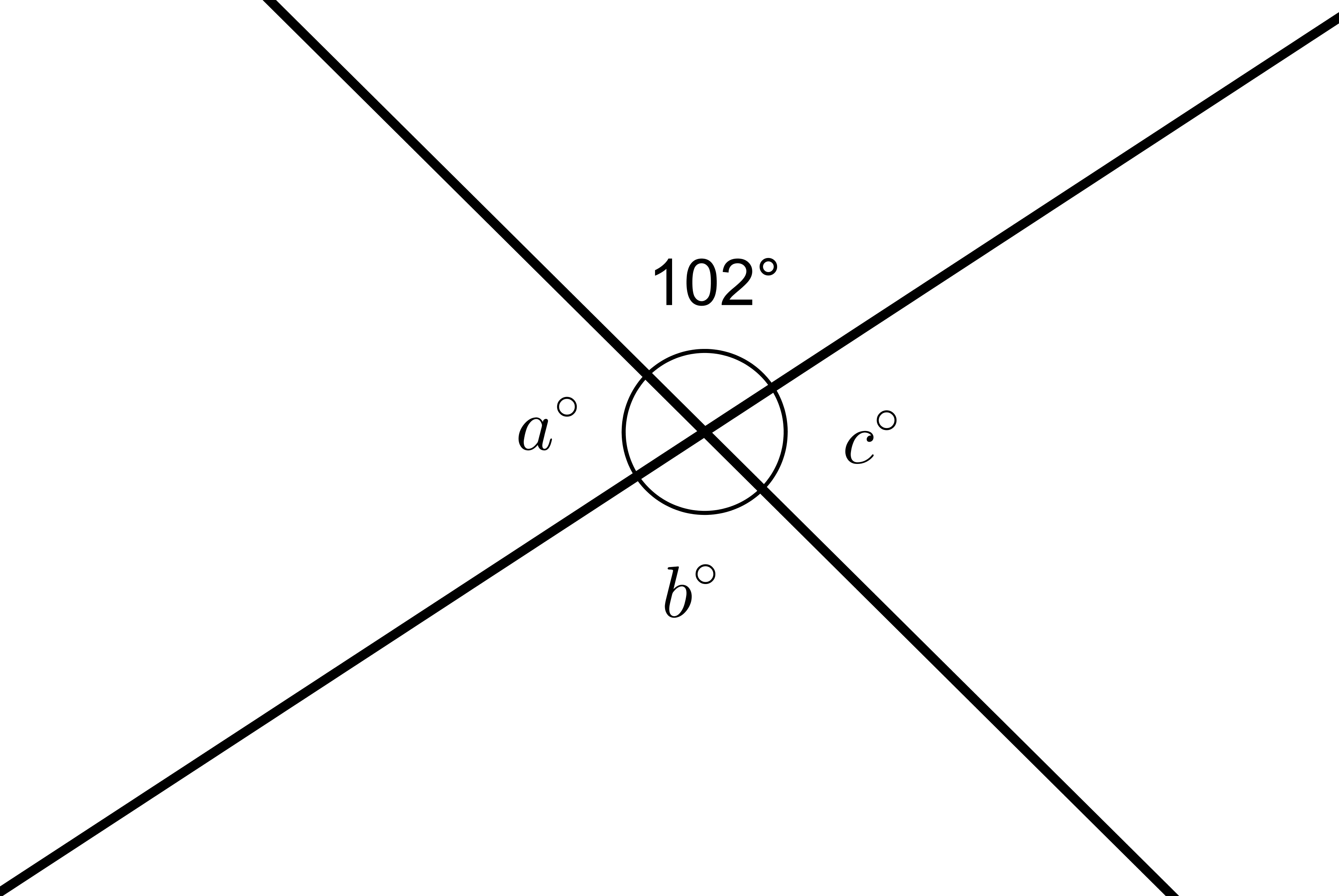
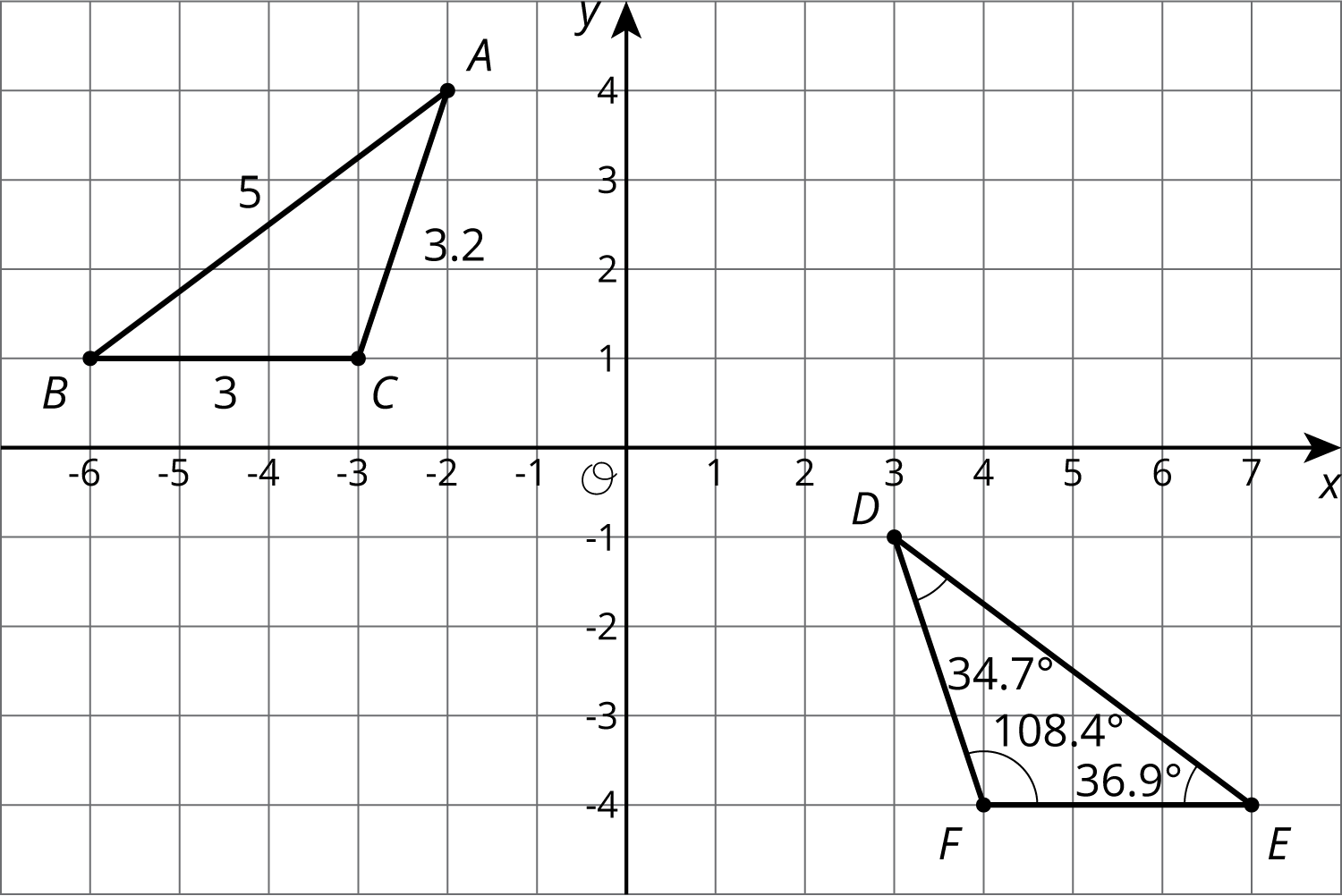
1. Segment measures 3 cm. Point is the center of dilation. How long is the image of after a dilation with . . .
   1. Scale factor 5?
   2. Scale factor 3.7?
   3. Scale factor ?
   4. Scale factor ?
2. Here are points and . Plot the points for each dilation described.

* 
  1. is the image of using as the center of dilation and a scale factor of 2.
  2. is the image of using as the center of dilation and a scale factor of 2.
  3. is the image of using as the center of dilation and a scale factor of .
  4. is the image of using as the center of dilation and a scale factor of .

1. Make a perspective drawing. Include in your work the center of dilation, the shape you dilate, and the scale factor you use.
2. Triangle is a scaled copy of triangle . Side measures 12 cm and is the longest side of . Side measures 8 cm and is the longest side of .
   1. Triangle is a scaled copy of triangle with what scale factor?
   2. Triangle is a scaled copy of triangle with what scale factor?

* (From Unit 2, Lesson 1.)

1. The diagram shows two intersecting lines.

* Find the missing angle measures.
* 
* (From Unit 1, Lesson 14.)
  1. Show that the two triangles are congruent.
  2. Find the side lengths of and the angle measures of .
* 
* (From Unit 1, Lesson 12.)



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