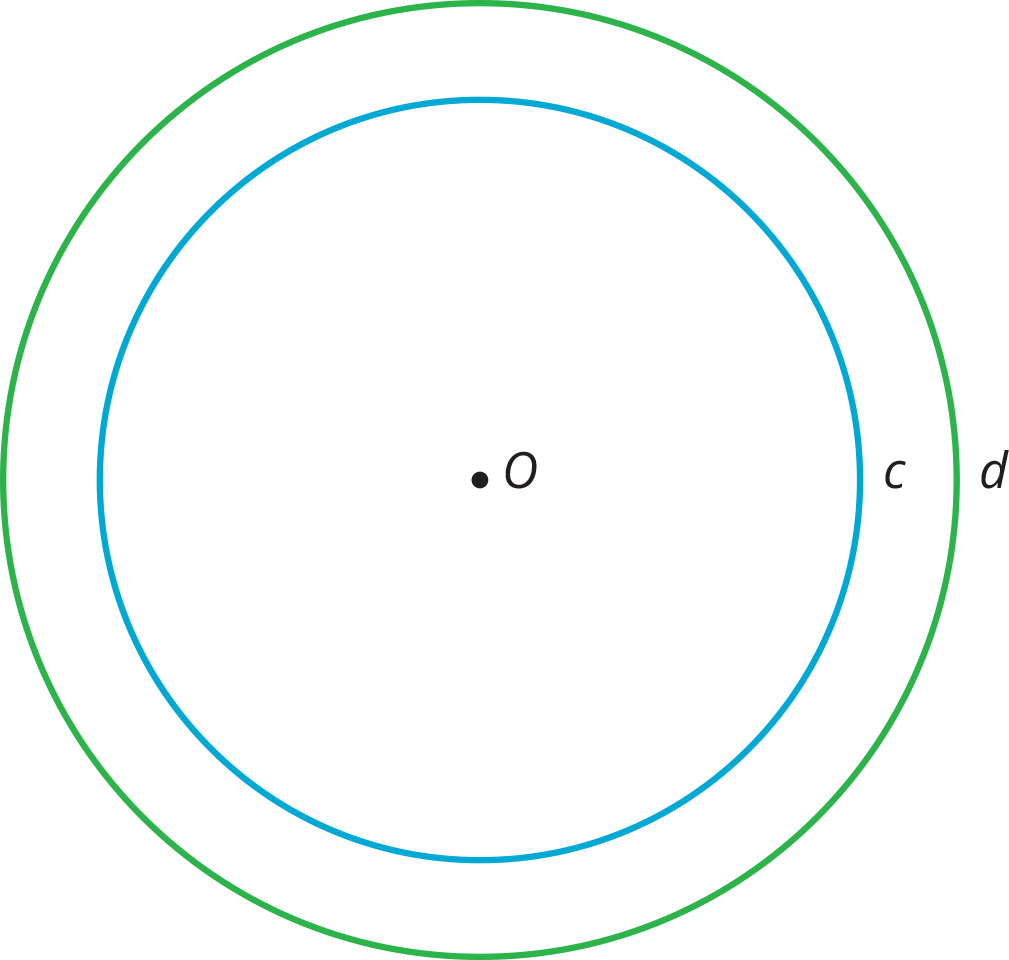
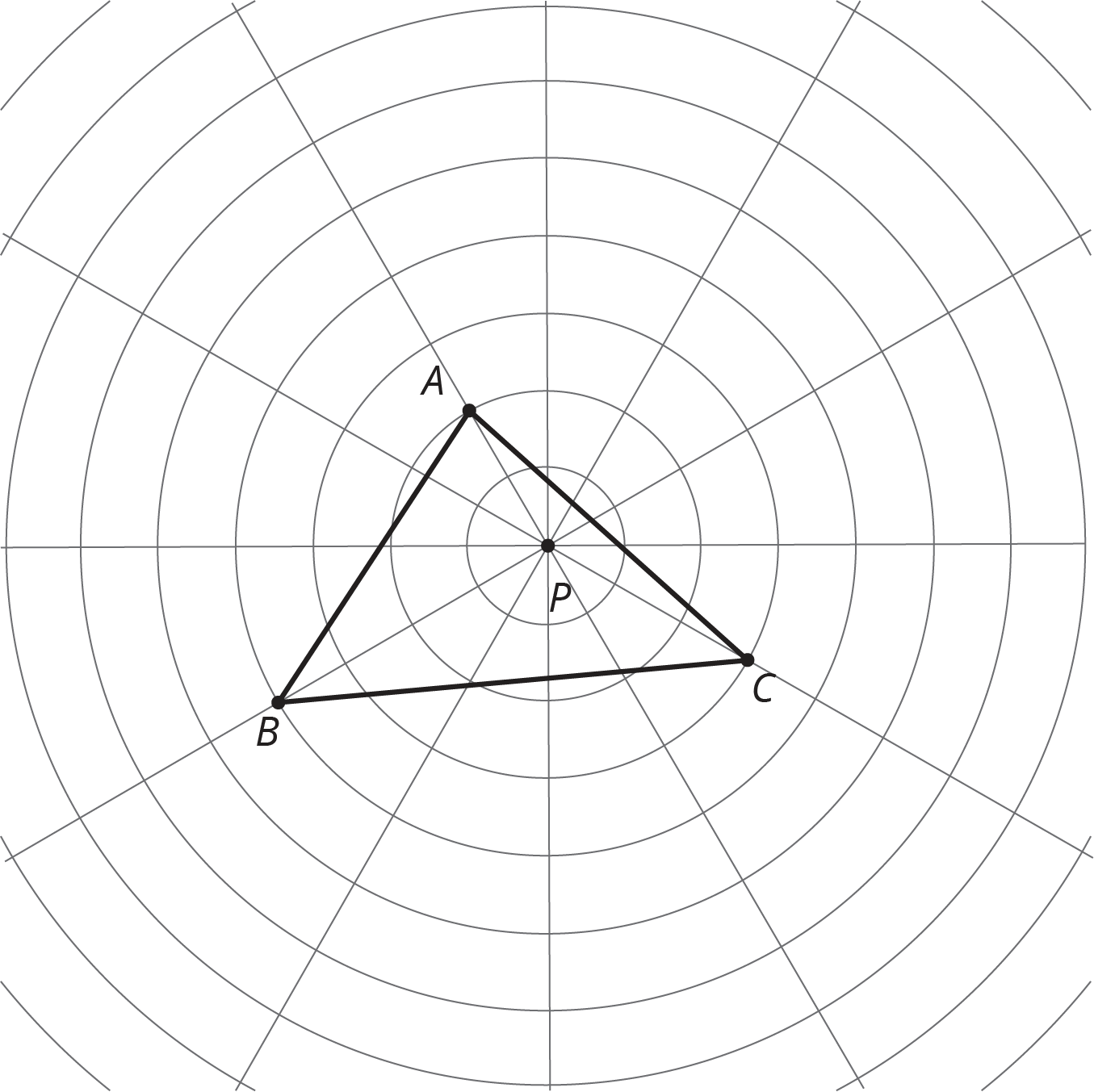
### Lesson 2 Practice Problems

1. Here are Circles and . Point is the center of dilation, and the dilation takes Circle to Circle .

* 
* 1. Plot a point on Circle . Label the point . Plot where goes when the dilation is applied.
  2. Plot a point on Circle . Label the point . Plot a point that the dilation takes to .

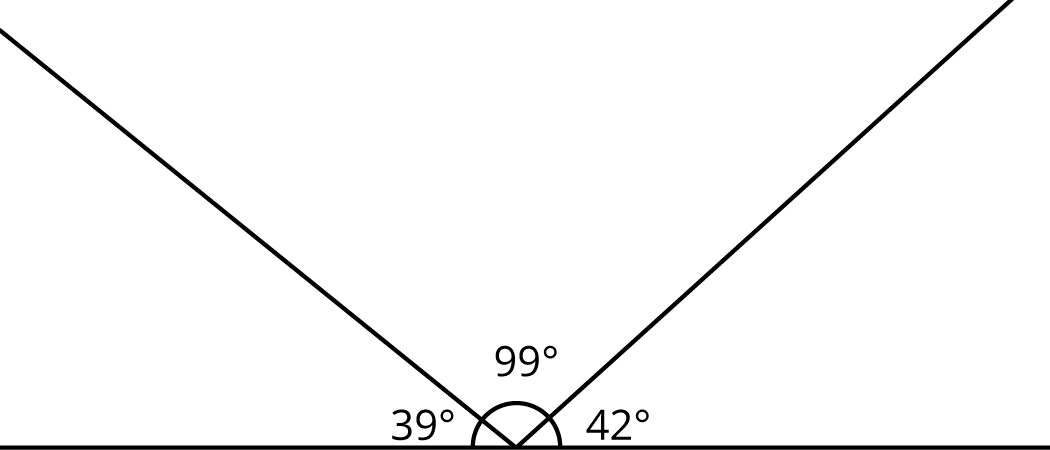
1. Here is triangle .

* 
  1. Dilate each vertex of triangle using as the center of dilation and a scale factor of 2. Draw the triangle connecting the three new points.
  2. Dilate each vertex of triangle using as the center of dilation and a scale factor of . Draw the triangle connecting the three new points.
  3. Measure the longest side of each of the three triangles. What do you notice?
  4. Measure the angles of each triangle. What do you notice?

1. Describe a rigid transformation that you could use to show the polygons are congruent.

* 
* (From Unit 1, Lesson 12.)

1. The line has been partitioned into three angles.

* 
* Is there a triangle with these three angle measures? Explain.
* (From Unit 1, Lesson 15.)



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