### Lesson 2 Practice Problems

1. Which of the following is true?

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1. Here is triangle ABC:
   1. Express the length of segment using sine or cosine.
   2. Express the length of segment using sine or cosine.

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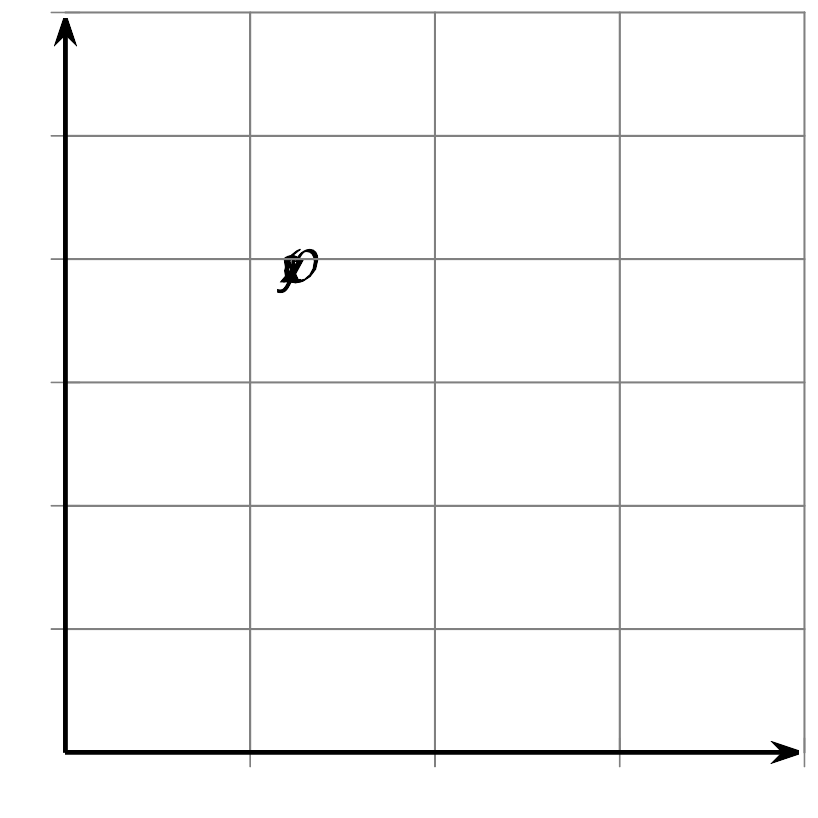
1. Triangle DEF is similar to triangle ABC.

* 
  1. What is the length of segment ? What is the length of segment ? Explain how you know.
  2. Explain why the length of segment is and the length of segment is .

1. Here is a triangle.

* Find , , and . Explain your reasoning.
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1. Sketch and label a right triangle with .

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1. The point lies on a circle with center . Name at least one point in each quadrant that lies on the circle.

* (From Unit 6, Lesson 1.)



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