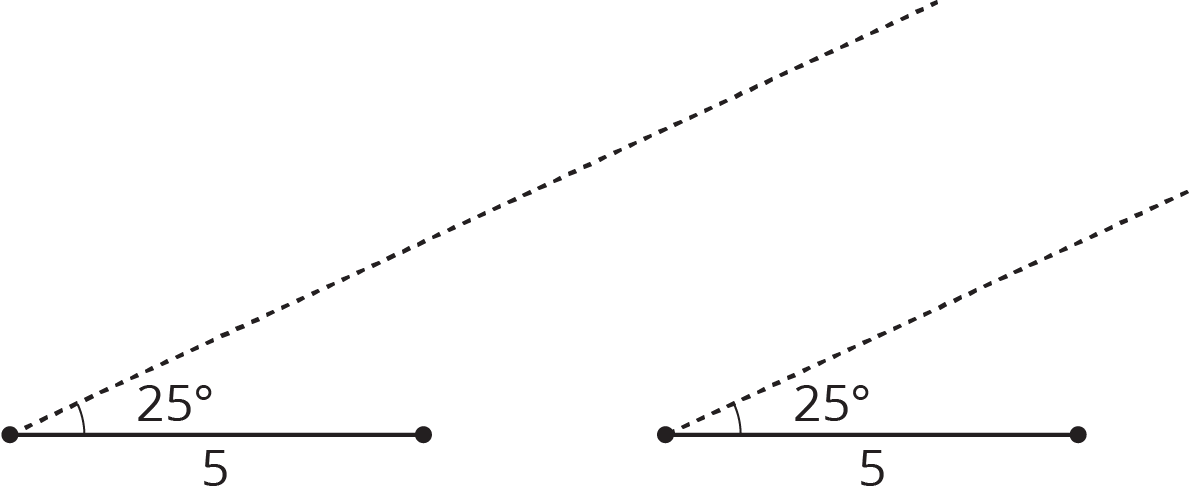
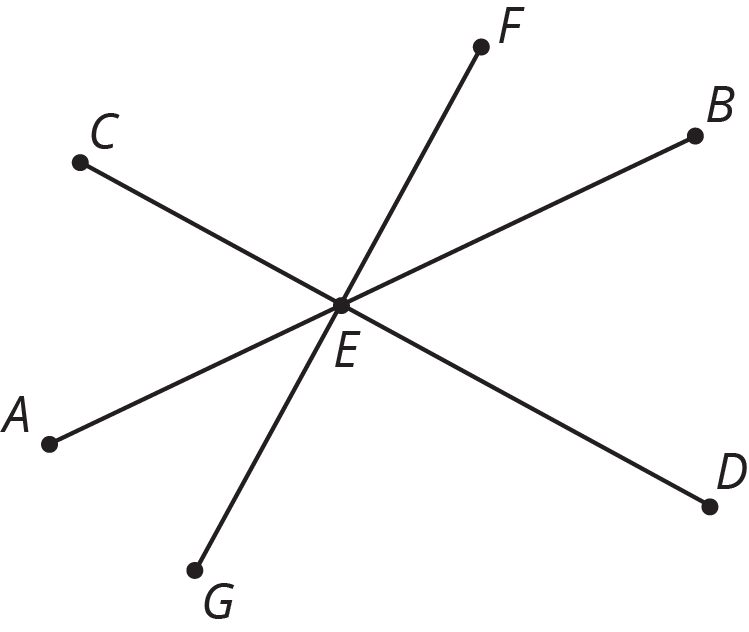
### Lesson 10 Practice Problems

1. A triangle has sides of length 7 cm, 4 cm, and 5 cm. How many unique triangles can be drawn that fit that description? Explain or show your reasoning.
2. A triangle has one side that is 5 units long and an adjacent angle that measures . The two other angles in the triangle measure and . Complete the two diagrams to create two *different* triangles with these measurements.

* 

1. Is it possible to make a triangle that has angles measuring 90 degrees, 30 degrees, and 100 degrees? If so, draw an example. If not, explain your reasoning.
2. Segments , , and intersect at point . Angle is a right angle. Identify any pairs of angles that are complementary.

* 
* (From Unit 7, Lesson 2.)

1. Match each equation to a step that will help solve the equation for .
   1. Add to each side.
   2. Add to each side.
   3. Add to each side.
   4. Add to each side.
   5. Multiply each side by 3..
   6. Multiply each side by .
   7. Multiply each side by .
   8. Multiply each side by

* (From Unit 5, Lesson 15.)
  1. If you deposit $300 in an account with a 6% interest rate, how much will be in your account after 1 year?
  2. If you leave this money in the account, how much will be in your account after 2 years?
* (From Unit 4, Lesson 8.)



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