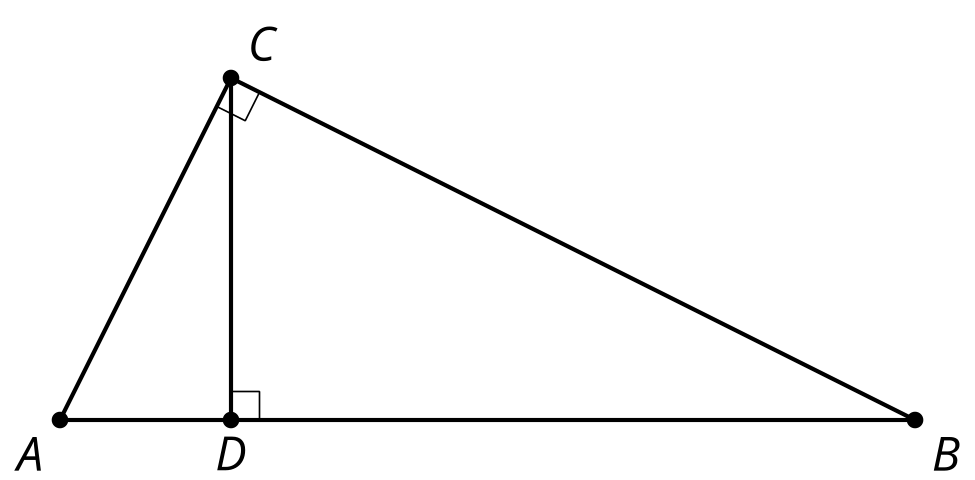
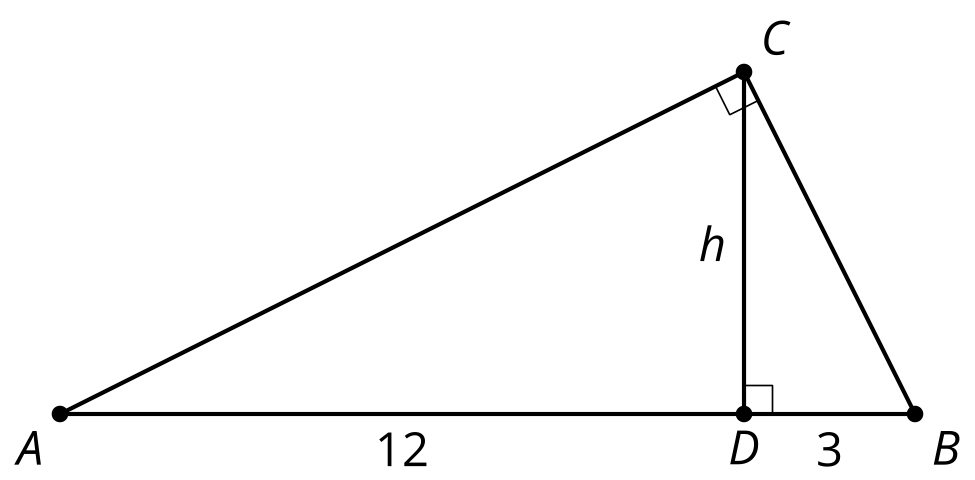
### Lesson 13 Practice Problems

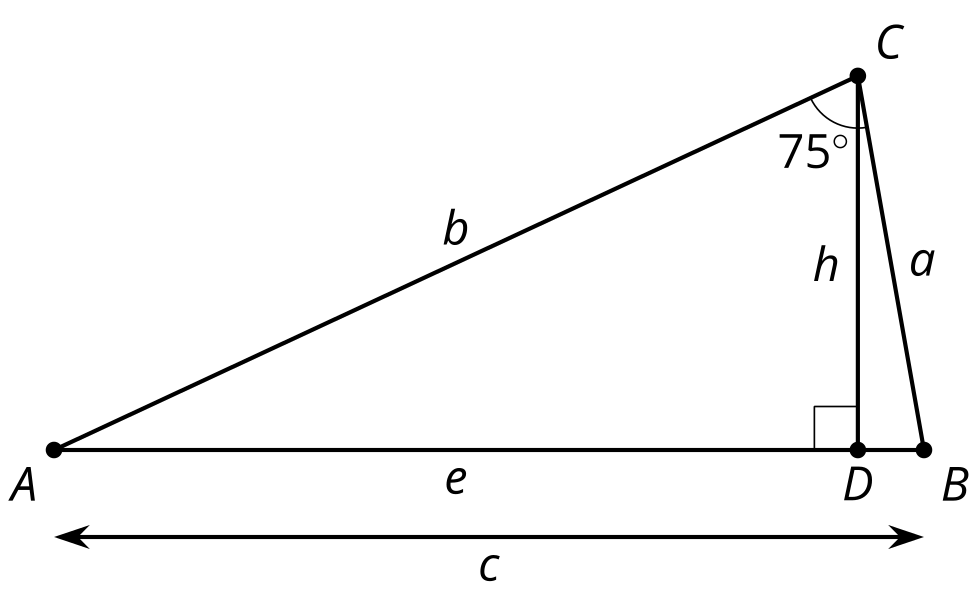
1. In right triangle , altitude is drawn to its hypotenuse. Select **all** triangles which must be similar to triangle .

* 

1. In right triangle , altitude with length is drawn to its hypotenuse. We also know and . What is the value of ?

* 

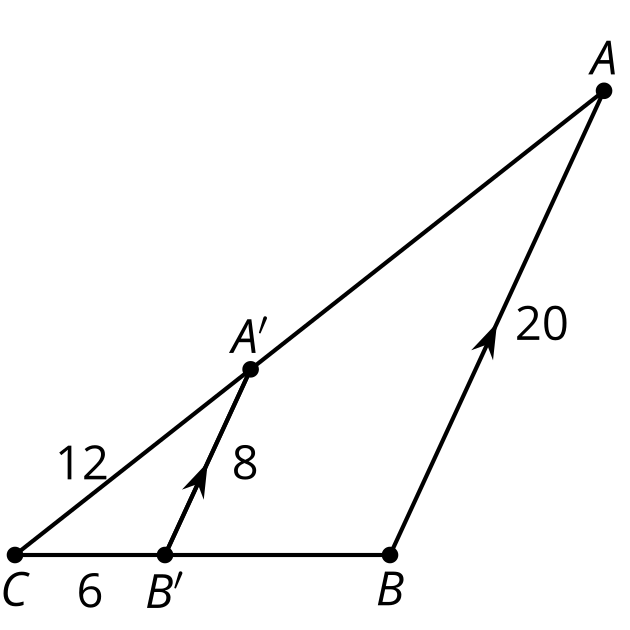
1. In triangle (*not* a right triangle), altitude is drawn to side . The length of is . Which of the following statements must be true?

* 
  1. The measure of angle is the same measure as angle .
  2. .
  3. Triangle is similar to triangle .
  4. The area of triangle equals .

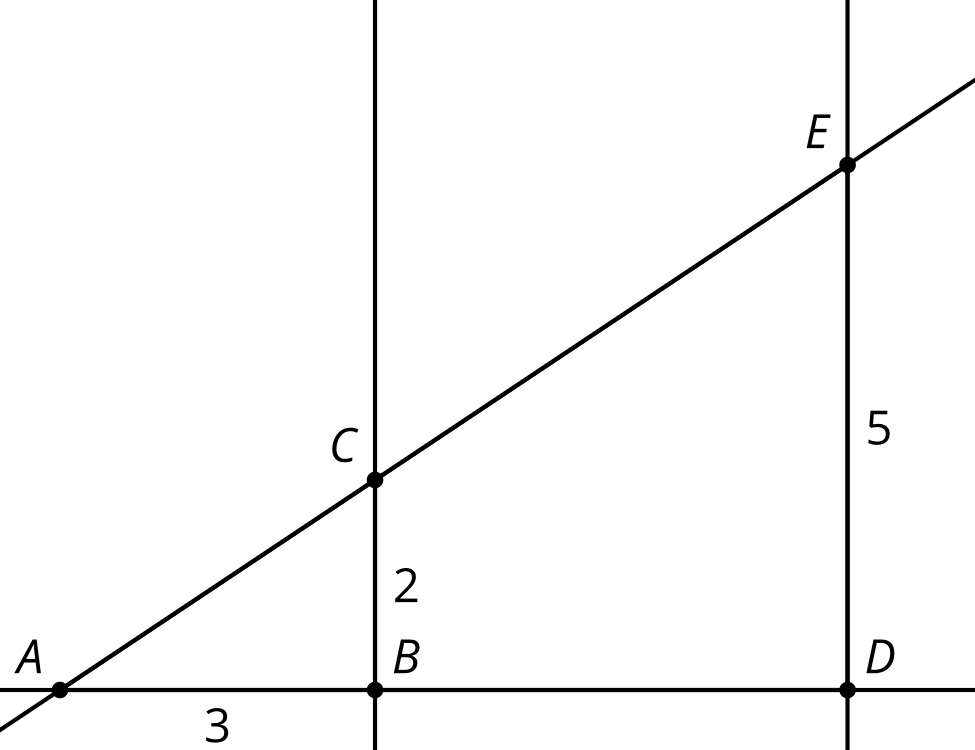
1. Quadrilateral is similar to quadrilateral . Write 2 equations that could be used to solve for missing lengths.

* (From Unit 3, Lesson 12.)

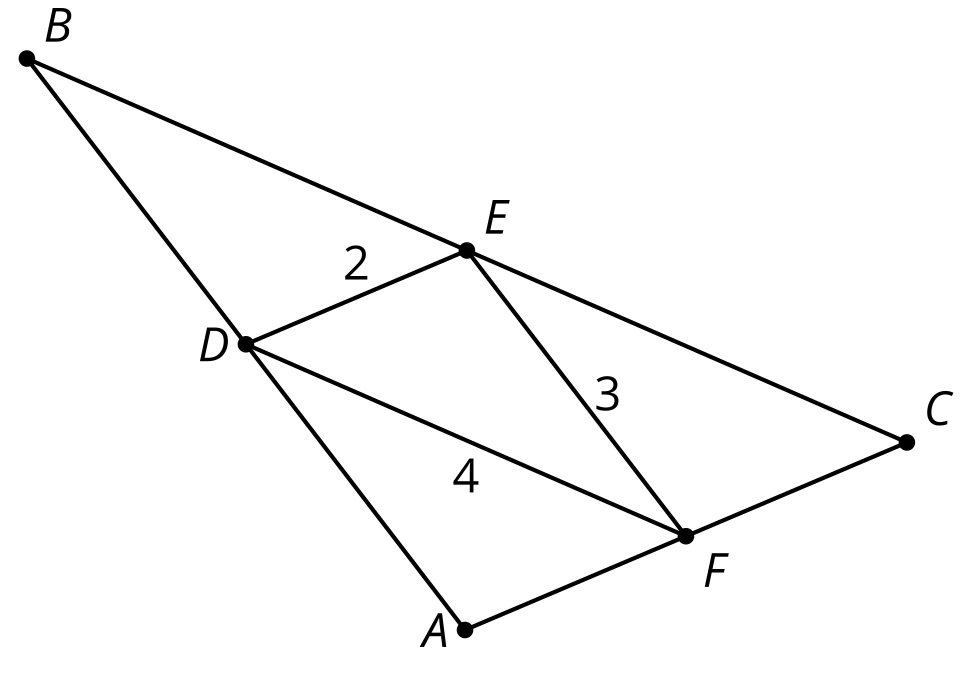
1. Segment is parallel to segment .
   1. What is the length of segment ?
   2. What is the length of segment ?

* 
* (From Unit 3, Lesson 11.)

1. Lines  and are both vertical. What is the length of ?

* 
  1. 4.5
  2. 5
  3. 7.5
  4. 10
* (From Unit 3, Lesson 12.)

1. Triangle is formed by connecting the midpoints of the sides of triangle . Select **all** true statements.

* 
  1. Triangle is congruent to triangle
  2. Triangle is congruent to triangle
  3. is congruent to
  4. The length of is 8
  5. The length of  is 6
* (From Unit 3, Lesson 5.)



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