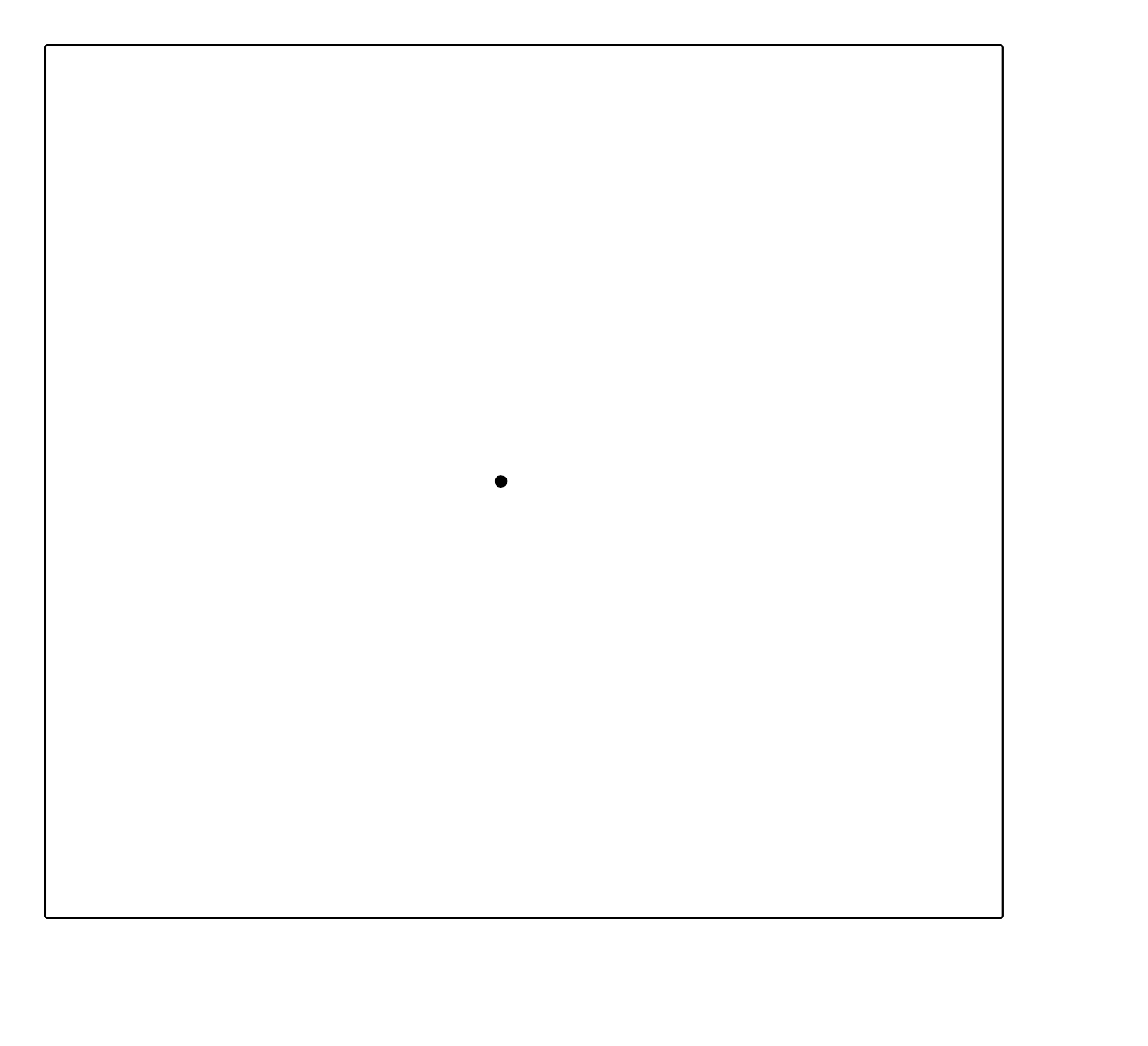
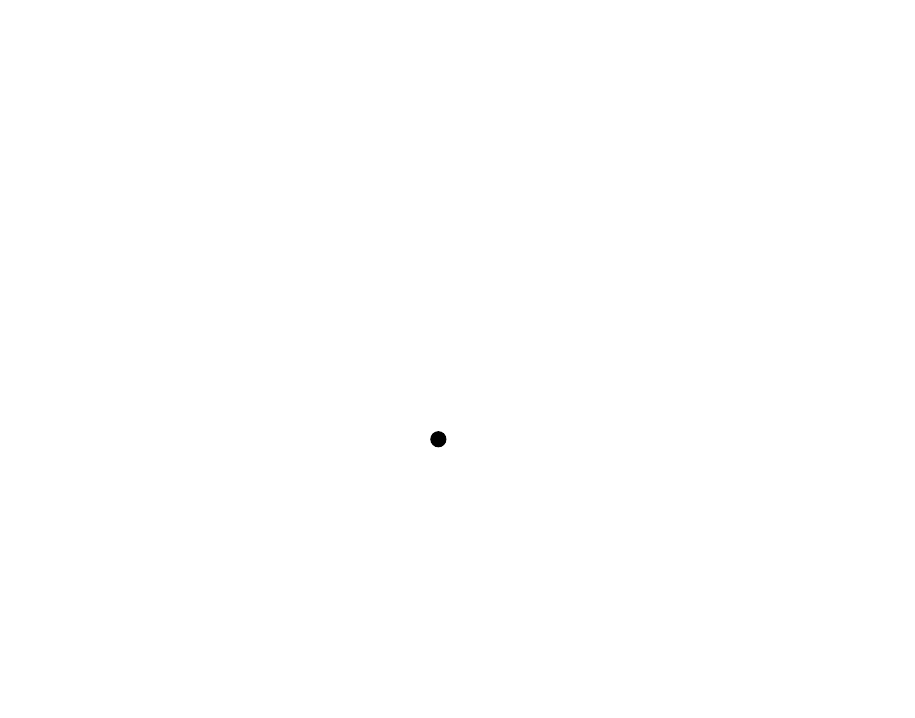
### Lesson 16 Practice Problems

1. Triangle and its medians are shown.

* 
* Select **all** statements that are true.
  1. The medians intersect at .
  2. The medians and altitudes are the same for this triangle.
  3. An equation for median is .
  4. Point is of the way from to .
  5. Median is congruent to median .

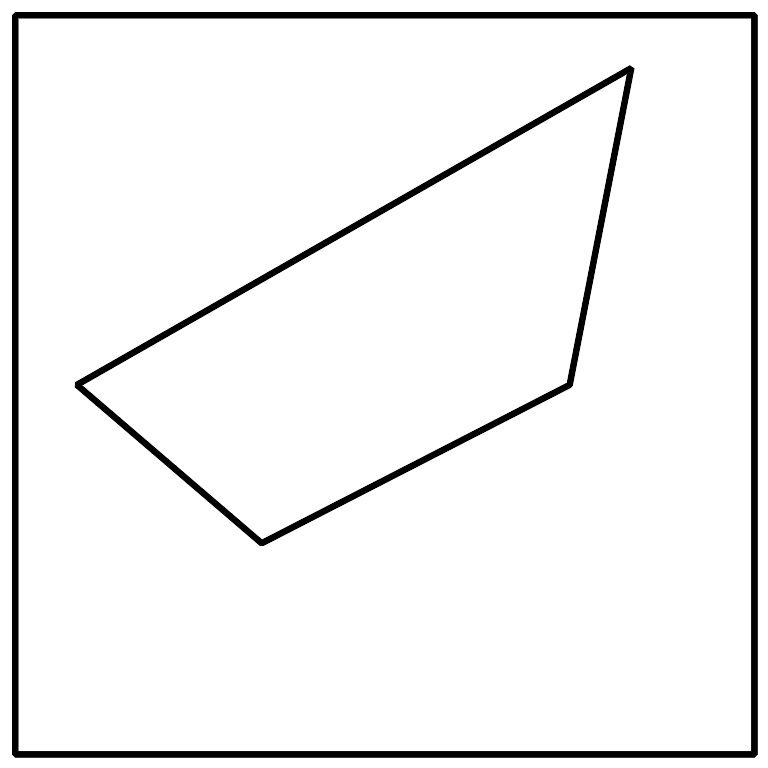
1. Triangle has vertices at  and . What is the point of intersection of the triangle’s medians?
2. Triangle and its medians are shown.

* 
* Match each pair of segments with the ratios of their lengths.

1. Given and , find the point that partitions segment in a ratio.

* (From Unit 6, Lesson 15.)

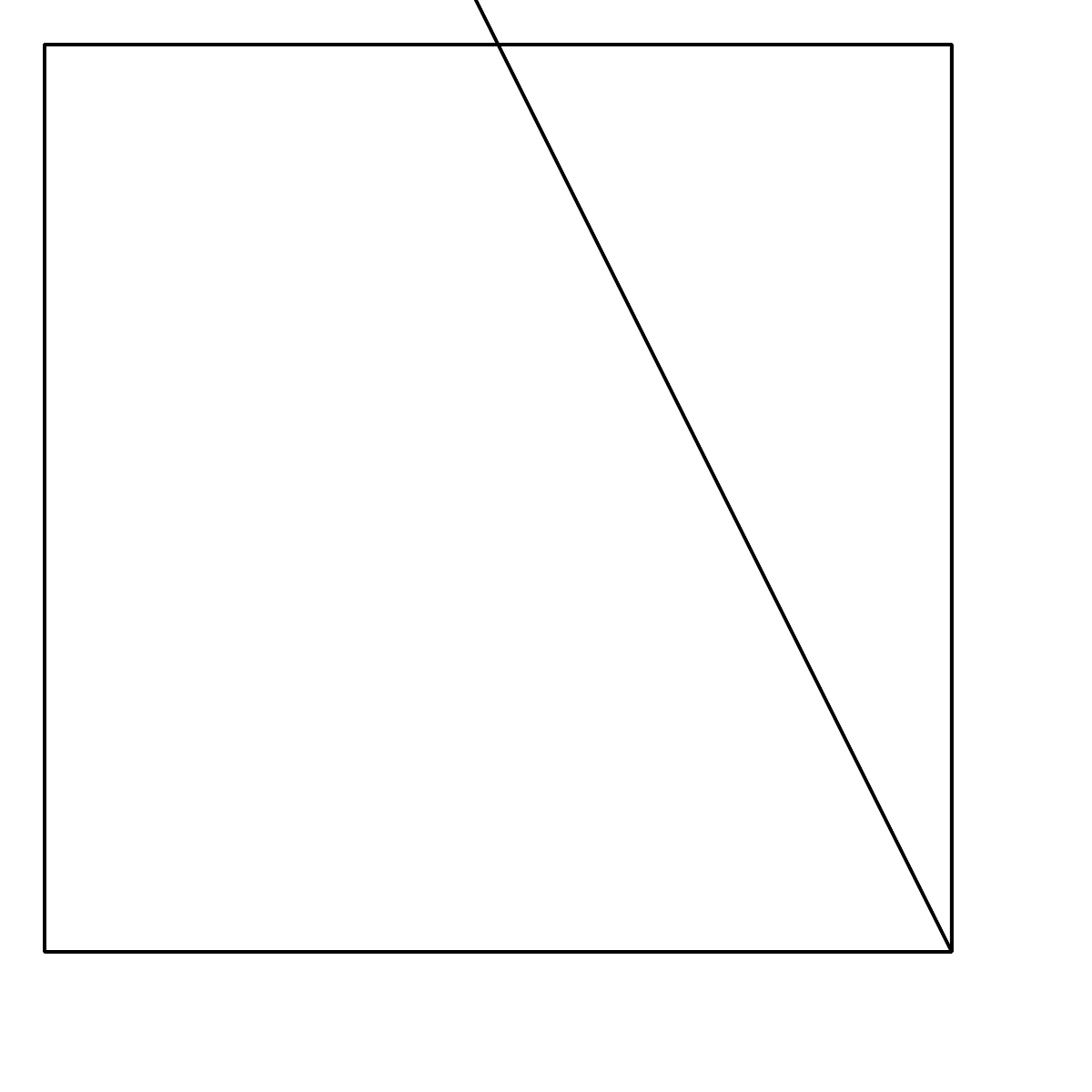
1. Graph the image of quadrilateral under a dilation using center and scale factor .

* 
* (From Unit 6, Lesson 15.)

1. A trapezoid is a quadrilateral with at least one pair of parallel sides. Show that the quadrilateral formed by the vertices  and is a trapezoid.

* (From Unit 6, Lesson 14.)

1. Here are the graphs of the circle centered at with radius 6 units and the line given by . Determine whether the circle and the line intersect at the point . Explain or show your reasoning.

* 
* (From Unit 6, Lesson 13.)

1. A parabola has focus  and directrix . The point is on the parabola. How far is this point from the focus?
   1. 8 units
   2. 5 units
   3. 3 units
   4. 2 units

* (From Unit 6, Lesson 8.)



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