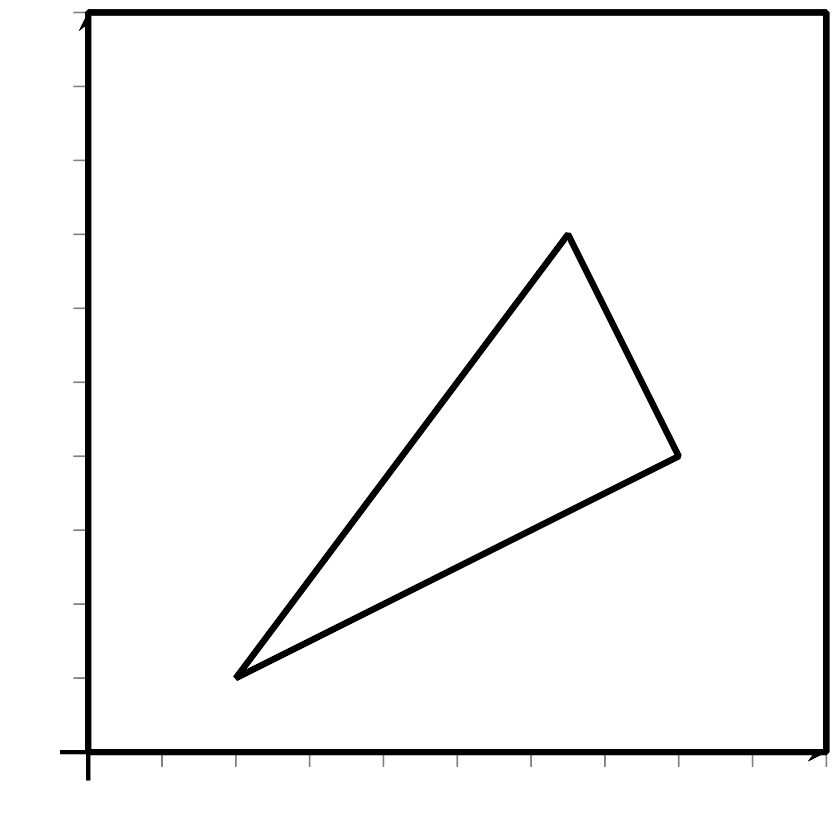
### Lesson 15 Practice Problems

1. Consider the parallelogram with vertices at  and . Where do the diagonals of this parallelogram intersect?
2. What is the midpoint of the line segment with endpoints  and ?
3. Graph the image of triangle  under a dilation with center  and scale factor .

* 

1. A quadrilateral has vertices  and . Prove that is a rectangle.

* (From Unit 6, Lesson 14.)

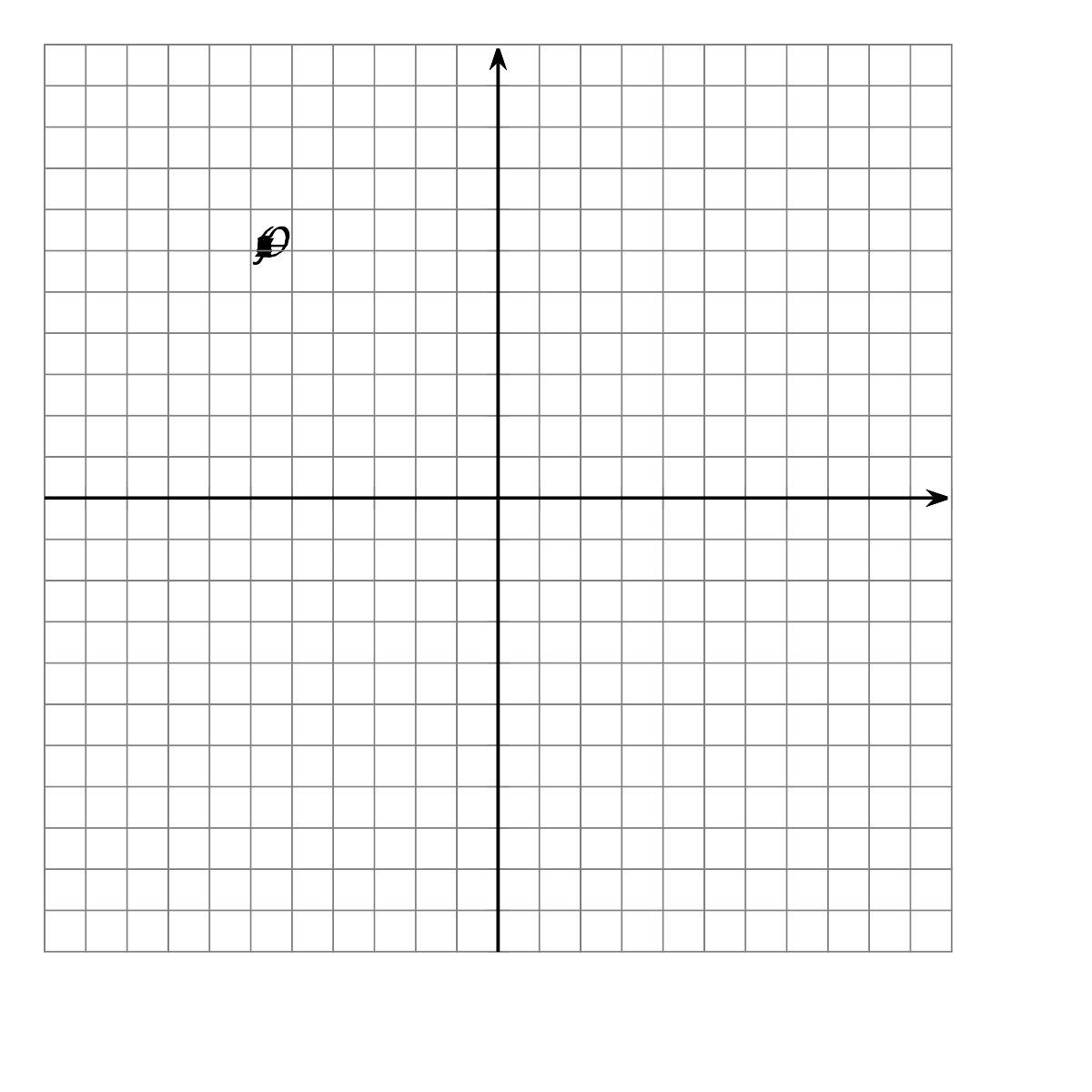
1. A quadrilateral has vertices and . Select the most precise classification for quadrilateral .
   1. quadrilateral
   2. parallelogram
   3. rectangle
   4. square

* (From Unit 6, Lesson 14.)

1. Write an equation whose graph is a line perpendicular to the graph of  and which passes through the point .

* (From Unit 6, Lesson 12.)

1. Graph the equations and . Where do they intersect?

* 
* (From Unit 6, Lesson 13.)

1. A parabola has a focus of and a directrix of . Decide whether each point on the list is on this parabola. Explain your reasoning.

* (From Unit 6, Lesson 7.)



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