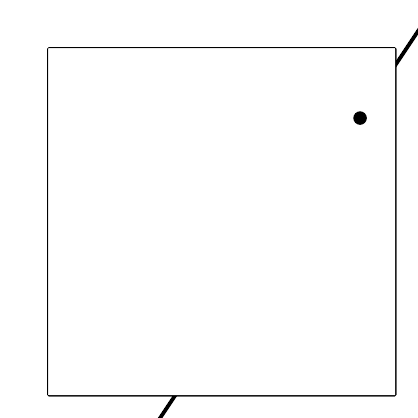
### Lesson 9 Practice Problems

1. Select **all** the equations that represent the graph shown.

* 

1. A line with slope passes through the point .
   1. Explain why is on this line.
   2. Explain why is not on this line.
   3. Is the point on this line? Explain why or why not.
2. Write an equation of the line that passes through and has a slope of .
3. A parabola has focus  and directrix . The point is on the parabola. How far is this point from the focus?
   1. 6 units
   2. 8 units
   3. 10 units
   4. cannot be determined

* (From Unit 6, Lesson 8.)

1. Write an equation for a parabola with each given focus and directrix.
   1. focus: ; directrix: -axis
   2. focus: ; directrix: the line
   3. focus: ; directrix: -axis
   4. focus: ; directrix: the line

* (From Unit 6, Lesson 8.)

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

* (From Unit 6, Lesson 7.)

1. Select the center of the circle represented by the equation .

* (From Unit 6, Lesson 6.)

1. Reflect triangle over the line .

* Translate the image by the directed line segment from to .
* What are the coordinates of the vertices in the final image?
* 
* (From Unit 6, Lesson 1.)



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