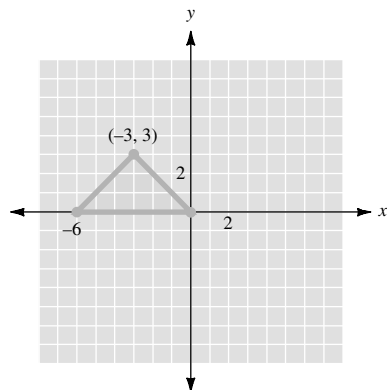


## Graph of the Inverse of a Relation

### • Example 1

Graph the inverse of the relation represented by the following graph.



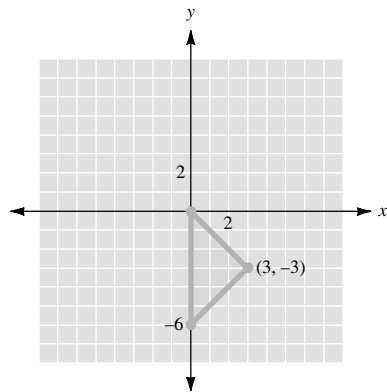
Consider the ordered pairs determined by the vertices of the triangle.

$$\{(0, 0), (-6, 0), (-3, 3)\}$$

The inverse of this relation is given by

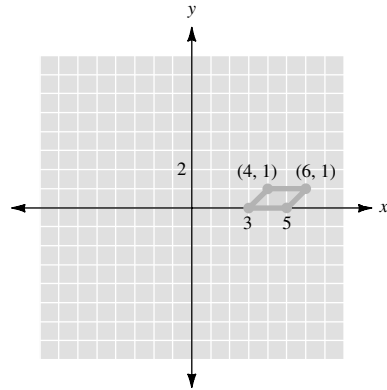
$$\{(0, 0), (0, -6), (3, -3)\}.$$

Each of the points  $(0, 0)$ ,  $(0, -6)$ ,  $(3, -3)$  represents a vertex of the triangular region below. This region represents the inverse of the relation specified by the first graph.



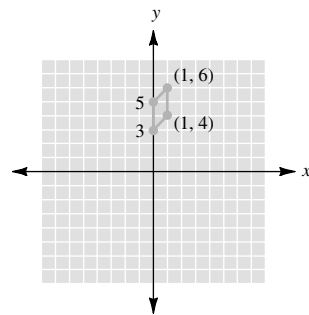
● ● ● CHECK YOURSELF 1

Graph the inverse of the relation represented by the following graph



● ● ● CHECK YOURSELF ANSWER

1.



# 4.12 Exercises

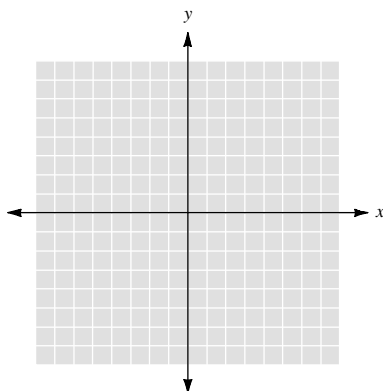
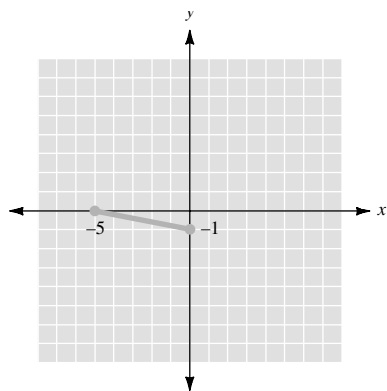
Name \_\_\_\_\_

Section \_\_\_\_\_

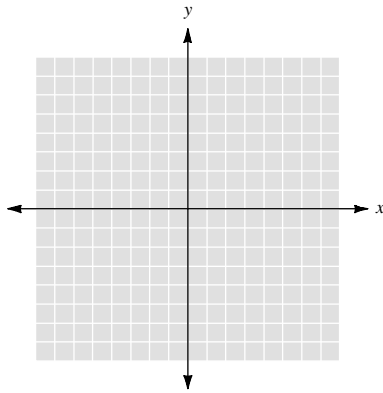
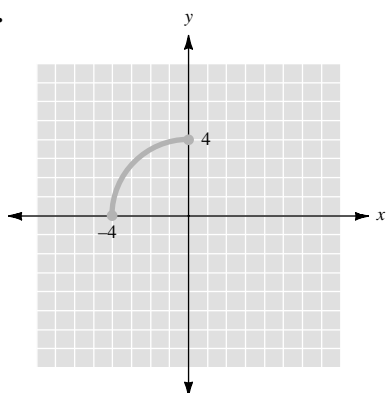
Date \_\_\_\_\_

Graph the inverse of the relations represented by each of the following graphs.

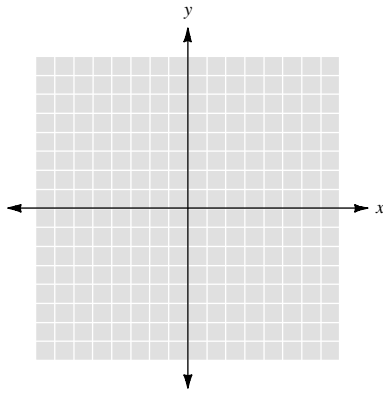
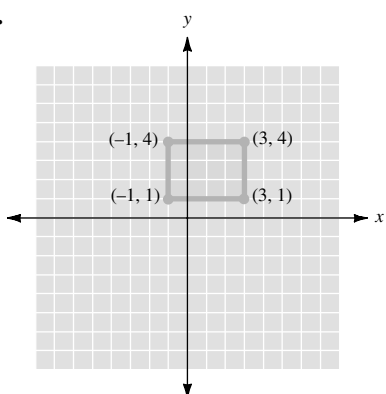
1.



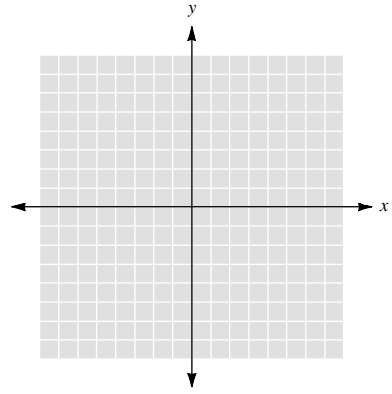
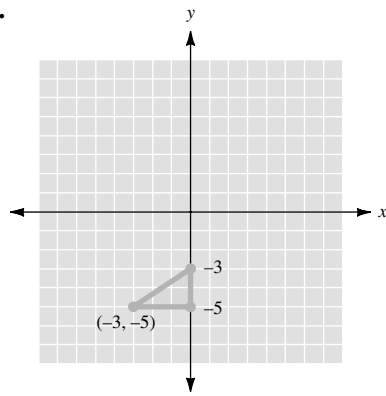
2.



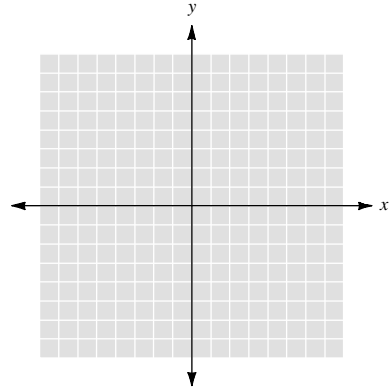
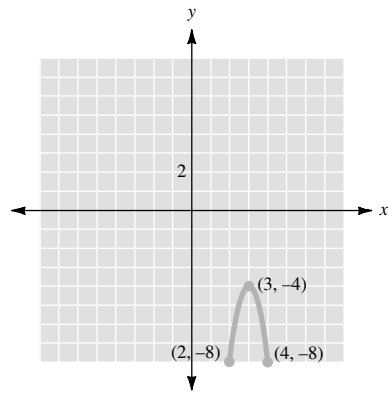
3.



4.



5.



6.

