

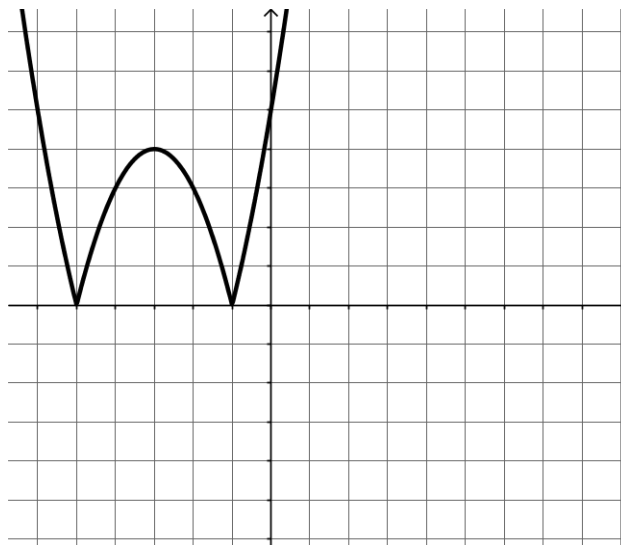
Name _____

Intriguing Inverses

1. List five ordered pairs from points on the function graphed below.

2. Use these points to name five ordered pairs that would be on the *inverse* relation of the function.

Function	
x	y



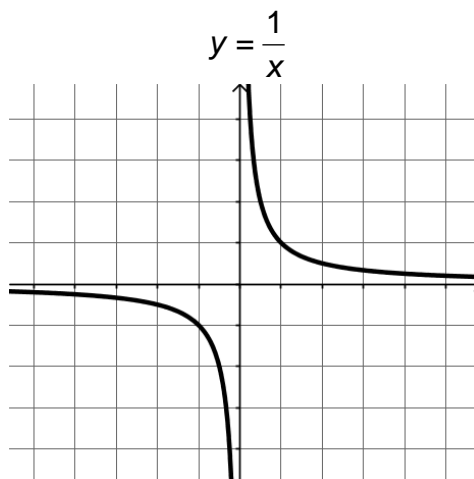
Inverse	
x	y

3. Is the inverse relation also a function? Why or why not?

4. Use a calculator to complete the table below for the function $y = \frac{1}{x}$.

Use these points to name ordered pairs that would be on the *inverse* relation of the function.

Function	
x	y
-2	
-1	
-0.5	
-0.4	
0.4	
0.5	
1	
2	



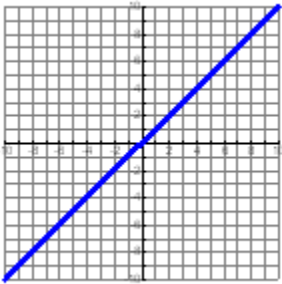
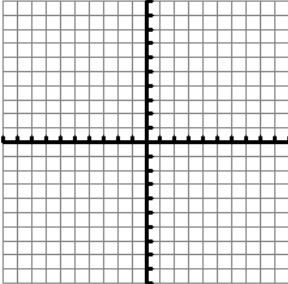
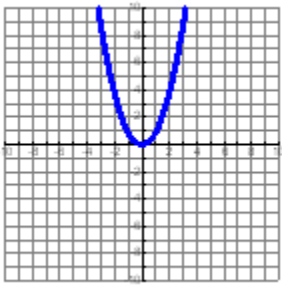
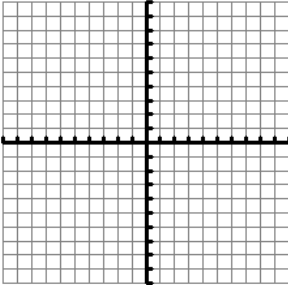
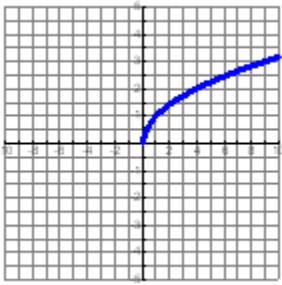
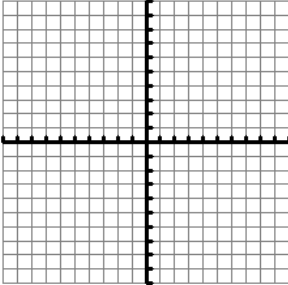
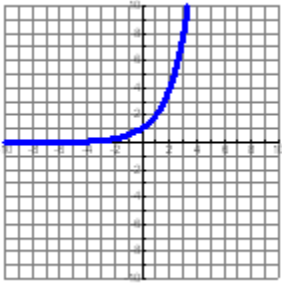
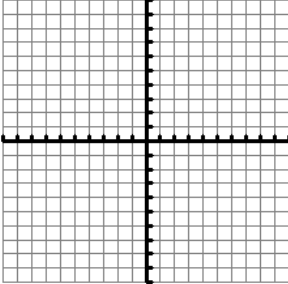
Inverse	
x	y

5. What do you notice is special about the inverse relation of this function?

Name _____

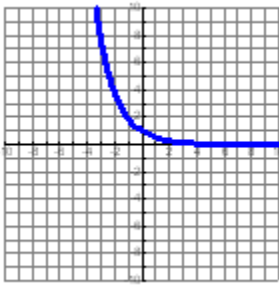
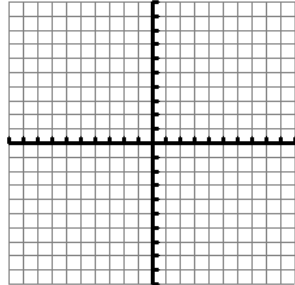
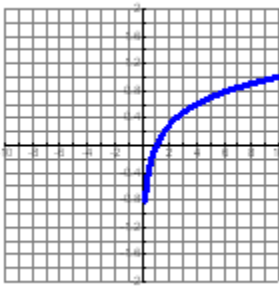
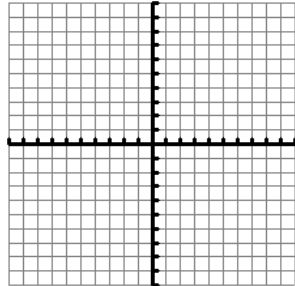
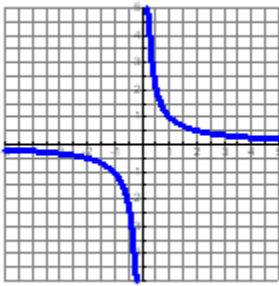
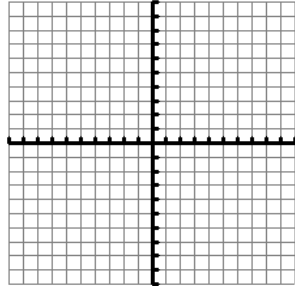
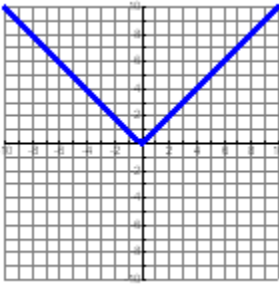
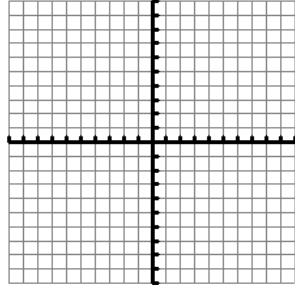
Intriguing Inverses

6. For each of the given parent functions, create a table of values containing at least five points on its graph. Use this table to create a table of values for its inverse relation. Graph the inverse relation of each parent function. Compare the characteristics of the parent function and its inverse relation.

Graph of Parent Function	Table of Points for Parent Function	Table of Points for Inverse	Graph of Inverse Relation	Function Domain Range																								
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