



# 3-1 Additional Practice

## Relations and Functions

What is the domain and range of each function?

1.

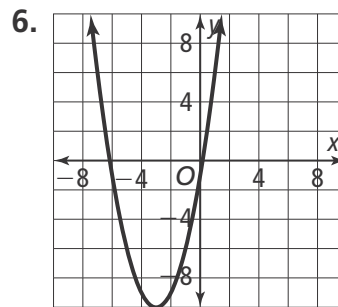
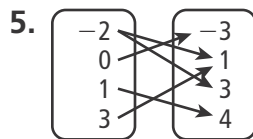
<b>x</b>	3	5	7	8	11
<b>y</b>	6	7	7	9	14

2.

<b>x</b>	-3	-1	2	5	7
<b>y</b>	9	5	4	-5	-7

Is each relation a function? If so, state whether it is one-to-one or many-to-one.

3.  $\{(-4, 7), (-3, 5), (1, 4), (3, -8), (5, -11)\}$       4.  $\{(-4, 8), (-2, 4), (0, 1), (2, 4), (4, 8)\}$



7. Explain how the vertical line test proves that a relation is not a function.

8. Fiona buys different amounts of gas at \$2.25. She has a graph which shows the different amounts she should pay. What constraints are there on the domain of the function?