Name:	Hour:	Date:

NOTES: Domain and Range

Goals: #1 – I can use interval notation to denote a function's domain and range.

#2 – I can determine the domain and range of a function when given a graph.

#3 – I can identify the domain and range of any function.



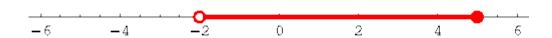




Homework: Domain & Range Worksheet

Exploration #1:

1. How could we represent the set of numbers that are shaded in RED?



Review: How do we define domain and range?

DOMAIN:

RANGE: ____

Notes:

We use _______ to denote a function's domain and range.

When listing domain and range, we list the ______ possible value on the _____

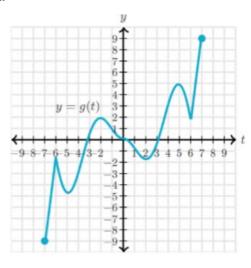
and the _____ possible value on the ____.

We use ______ to include a value in the set.

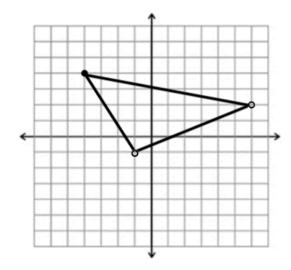
We use ______ to NOT include a value in the set.

Example #1: Identify the domain and range of the relations graphed below. Use interval notation.

a.



b.



Domain: _____

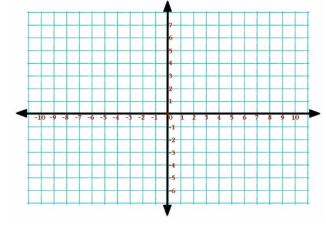
Domain:

Range: _____

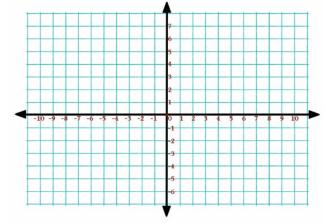
Range: _____

Example #2: Graph the function using any method. Identify the function's domain and range using interval notation.

a.
$$y = -3x + 2$$
 for $x > 0$



b. y = -2|x - 4| + 7



Domain: _____

Domain: _____

Range: _____

Range: _____

Name	:	Hour:	Date:	
Example #3: Jason had a summer job that paid \$7.00 an hour and he worked between 15 and 35 hours every week. His weekly salary can be modeled by the equation: $S = 7h$, where S is his weekly salary and h is the number of hours he worked in a week.				
a.	Describe a reasonable domain and range f	or the situation.		
	Domain:			
	Range:			