Worksheet 5.2 Relations and Functions

Fill in the blank with the appropriate word, phrase, or symbol to make a true statement.

1.	A is a set of ordered pairs of numbers.	
2.	The of a relation is the set of first coordinates of the ordered pairs and the is the set of second coordinates.	
3. th	A is a relation that assigns exactly one value in the range to each value in e domain.	
4.	One way to tell whether a relation is a function is to analyze the graph of the relation using the	
5.	A is an equation that describes a function.	
6.	A function is in when you use $f(x)$ to indicate the outputs.	
Fi	Find the domain and range of each relation.	
7.	$\{(4, 6), (6, 7), (4, 3), (5, 19), (5, 7)\}$ 8. $\{(2, -3), (-2, 3), (2, 3), (-2, -3), (3, -2)\}$	

9. Use the vertical line test to determine whether each relation is a function.



10. Use a mapping diagram to determine whether each relation is a functions.

 $\{(6, -7), (5, -8), (1, 4), (5, 5)\}$

11. Find the range of the function rule y = 5x - 2 for the domain $D = \{-5, -1, 0, 2, 10\}$

Use the vertical-line test to determine whether each graph is the graph of a function.





