

## Functions and Relations Quiz Review

Complete the function table then identify the domain and range.

1.  $y = 4x - 2$

$x$	$4x - 2$	$y$
-1		
0		
1		
2		

a. Domain:  $\{2, -2, 2, 4\}$   
Range:  $\{-1, 0, 1, 2\}$

c. Domain:  $\{-1, 0, 1, 2\}$   
Range  $\{2, -2, 2, 4\}$

b. Domain:  $\{-1, 0, 1, 2\}$   
Range:  $\{-6, -2, 2, 6\}$

d. Domain:  $\{-6, -2, 2, 6\}$   
Range:  $\{-1, 0, 1, 2\}$

Fill in the blank choosing words from the word bank.

Function	Graph	Range	Function Table
Inequality		Relation	Domain

2. The \_\_\_\_\_ is the set of output values.

3. Use a \_\_\_\_\_ to organize the input numbers, output numbers and function rule.

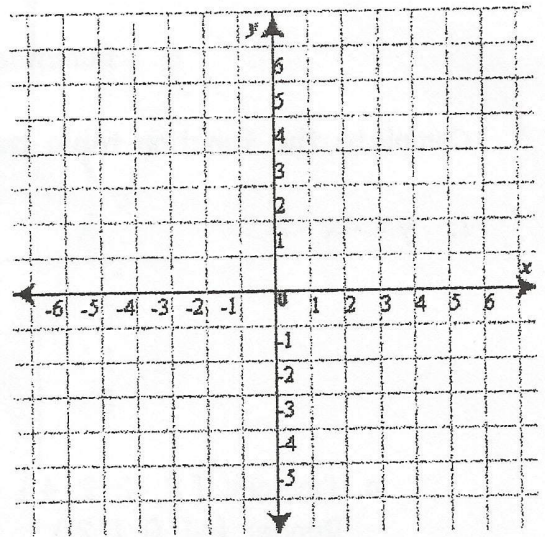
4. A relation is a(n) \_\_\_\_\_ when there is exactly one output for each input.

5. A set of ordered pairs is called a \_\_\_\_\_.

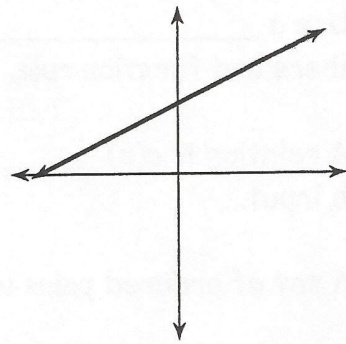
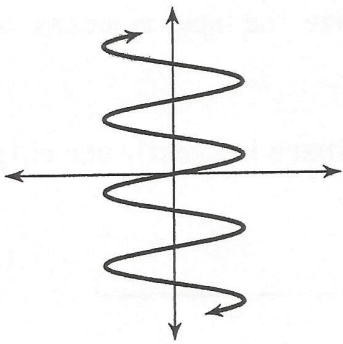
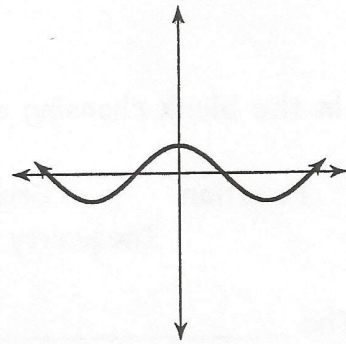
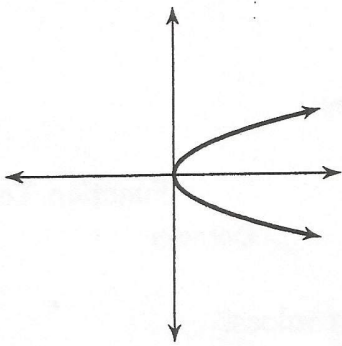
6. Make a function table and write an equation for the following math sentence.

**The second number is twice the first number.**

Let  $x$  represent the first number and  $y$  represent the second number. Use  $-2, -1, 0, 1, 2$  for the domain. Write the ordered pairs and graph. (next page)



7. Determine whether each graph is a function. EXPLAIN!



8. Complete the function table and write the rule for the function.

Rule: \_\_\_\_\_

Input	$u$	0	5	10	15	<input type="text"/>
Output	$e$	<input type="text"/>	1	2	3	4



9.

x	y
-2	-1
-1.5	0
0	3
3	0

Which is true for all values in the table above?

- A  $y = x - 1$
- B  $y = x + 1$
- C  $y = 2x + 3$
- D  $y = -x + 3$

10. Which graph contains values that satisfy the following function?

$$y = -x + 2$$

