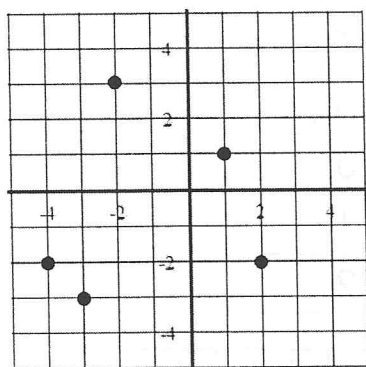1. What is a Relation?

2. What is the Domain of a Relation?   3. What is the Range of a Relation?

4. State the Domain and Range of this Relation: $(4,-1),(2,3),(4,-5),(-2,6),(1,3)$

Domain: Range:

5. What is the domain and range of the Relation shown below:

Domain: Range:
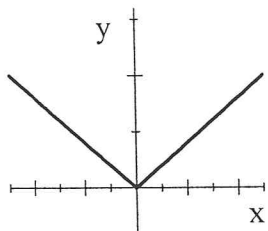

6. What is a Function?

7. How can you use the Vertical Line Test to tell if the graph of a relation represents a function?

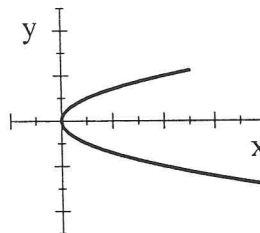8. Is each of these relations a function?

a)   b)   c)

X	Y
-2	4
3	1
7	-6
4	1

9. What is a function rule?

10. How do you say $f(x)$?

11. What is another way to write $f(x) = 7x - 8$?

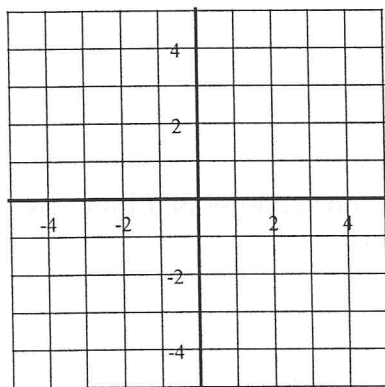12. If $f(x) = -2x + 3$ what does $f(5)$ mean?

Find $f(5)$.

13. If $f(x) = x^2 + 3x$ find the range for this given domain: $Domain : \{-4, 0, 2\}$

14. Find the y-coordinates for each x-coordinate then plot the points and connect in order to graph the given function.

a) $f(x) = x^2 - 3$

X	Y
-2	
-1	
0	
1	
2	

c) $f(x) = |x| + 2$

X	Y
-2	
-1	
0	
1	
2	