

For each of the following relations:

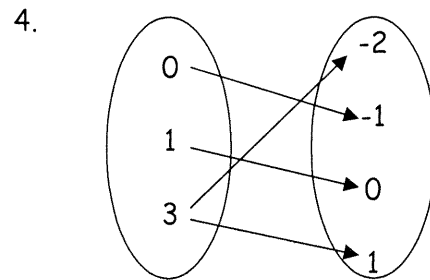
- A. Determine if the relation is a function. Write out "Function" or "Not a Function".
 B. If it is a function, state whether it is a one-to-one function or a many-to-one function.
 If it is not a function, explain why.
 C. Find the domain and range. Be sure to use the appropriate notation.

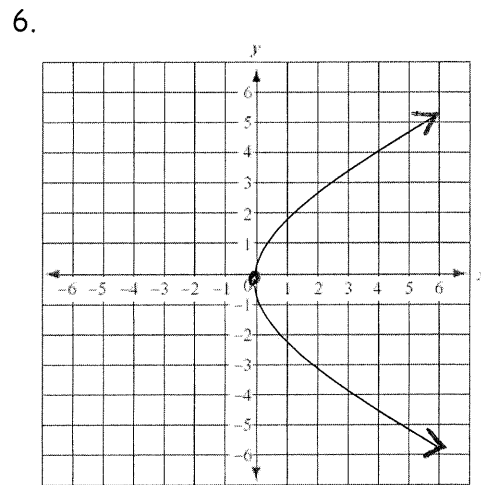
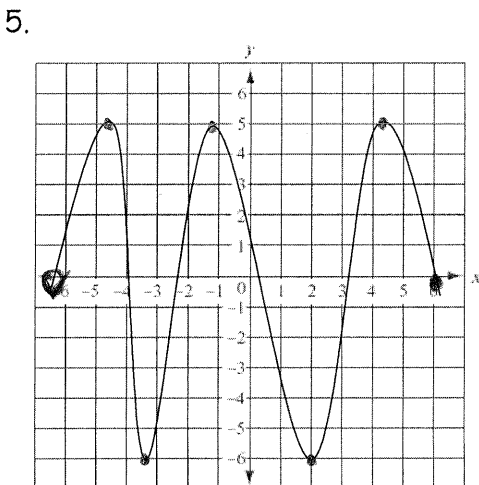
1. $\{(-2,8), (-1, 4), (0,0), (1,-4), (2,-8)\}$

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

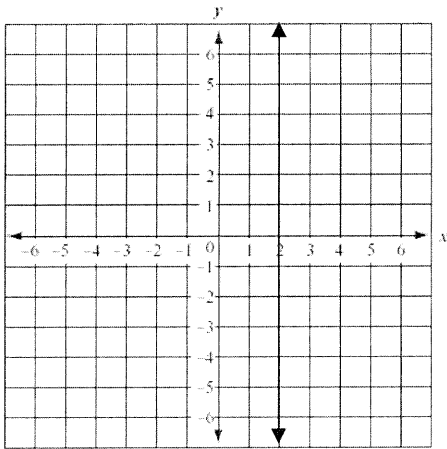
3.

X	Y
-3	9
-1	1
0	0
1	1
3	9

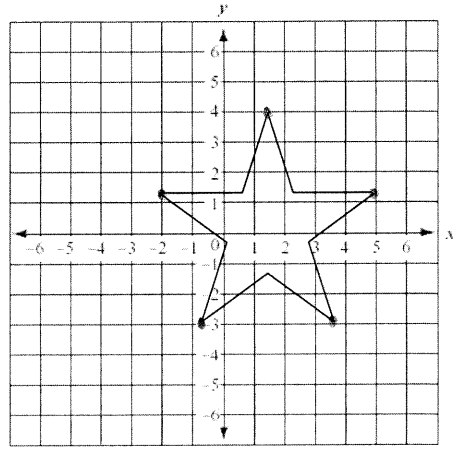




7.



8.



For the following functions:

A. Determine the domain and range for the function. You may use a graphing calculator.

B. Determine the name of the function.

9. $y = -x^2 - 3$ D: _____ R: _____ Name: _____

10. $f(x) = \sqrt{x+2}$ D: _____ R: _____ Name: _____

11. $f(x) = -x^3 - 1$ D: _____ R: _____ Name: _____

12. $y = 4x + 5$ D: _____ R: _____ Name: _____

13. $y = x^2 + 4$ D: _____ R: _____ Name: _____

14. $y = -\sqrt{x}$ D: _____ R: _____ Name: _____

15. $y = x^3 + 6$ D: _____ R: _____ Name: _____

16. $y = -4$ D: _____ R: _____ Name: _____

Evaluate the following functions. Show all work.

17. $f(x) = \frac{2}{3}x - 5$

a. $f(-6) =$ _____

b. $f(18) =$ _____

18. $f(x) = -3x^2 + 2x - 5$

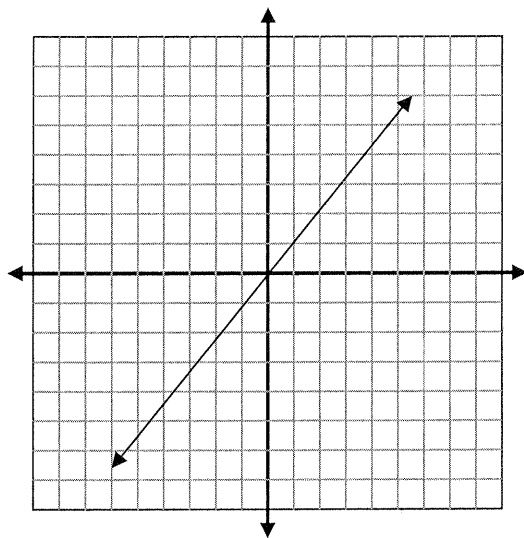
a. $f(2) =$ _____

b. $f(-3a) =$ _____

c. $f(x + 2) =$ _____

For the following function, evaluate $f(0)$, $f(2)$, and $f(-1)$.

19.)



Scales: 1