# 6-1 Functions

Name: _____ Time› Start: _____ Finish: _____ Total Time = _____

**Consider these four functions:**

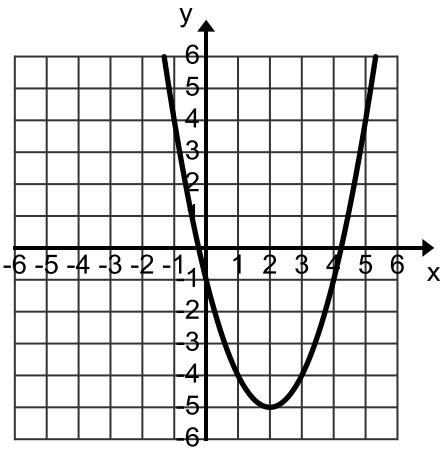
**$f(x) = 3x - 10$** **$g(x) = x^2$** **$h(x) = (x - 3)^2 + 1$** **$w(x) = 2^x$**

1. f(4) = _____
2. g(-3) = _____
3. h(5) = _____
4. f(-10) = _____
5. w(3) = _____
6. h(-1) = _____
7. g(10) = _____
8. w(0) = _____

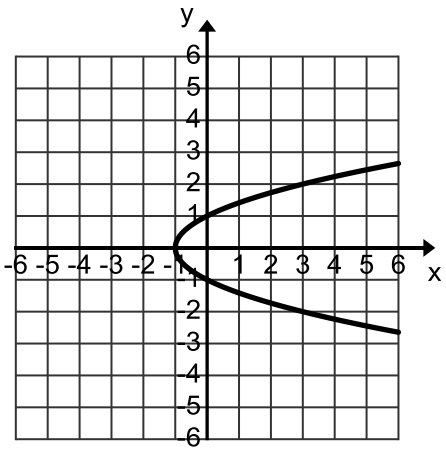
**State if the given sets or graphs are functions or not functions.**
**To be a function, for each x value, there can only be one y value. Circle your answer**

9. $\{(2,4),(3,4),(5,7)\}$
   Yes No
10. $\{(-2,4),(-1,0),(5,7)\}$
    Yes No
11. $\{(-1,4),(-1,0)\}$
    Yes No

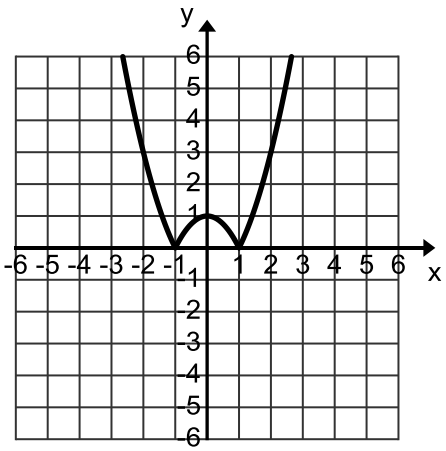
12. Yes No




13. Yes No




14. Yes No




15. Which of these is the zero of the function $f(x) = x^2 + 4x - 5$?
    A. 2 B. -3 C. -5 D. 3

16. Which of these is the zero of the function $f(x) = x^2 - 5x + 6$?
    A. -3 B. -2 C. 3 D. 4