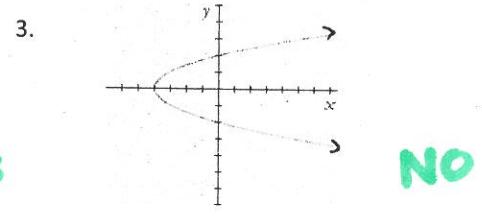
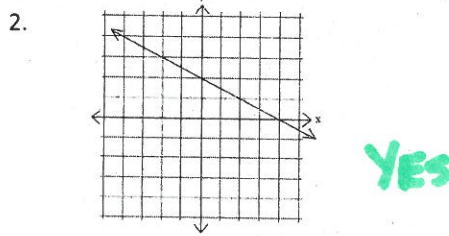
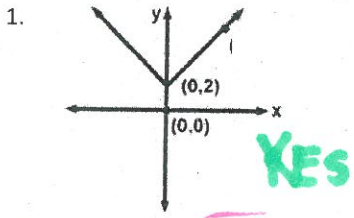


KEY

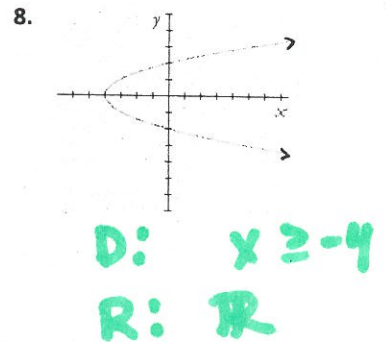
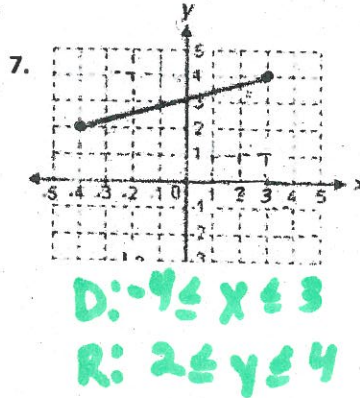
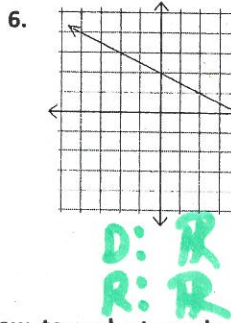
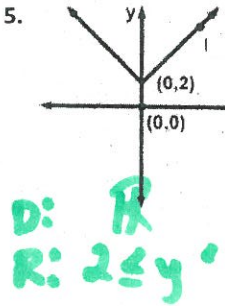
#1-3, Given the information determine whether or not the relationship is a function. Yes or no?



4. Give a list of 5 coordinates that would not qualify as a function.

(3,1), (3,2), (3,3) Same x's with different y's

#5-8, Determine the domain and range of each relationship.



#9-12, Use the functions below to evaluate each.

$f(x) = x^2 + 3$

$g(x) = -x + 1$

$h(x) = x^2 + 2x - 3$

9. $f(5)$
28

10. $h(-1)$
-4

11. $g(-5)$
6

12. $f(10)$
103

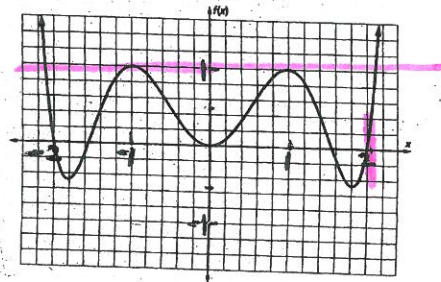
13. Use your graphing calculator.

What is the domain and range of the function $f(x) = 3x^2 + 5$

D: \mathbb{R}
R: $y \geq 5$

14. Use the graph at right to answer

- a. Give two values of x for which $f(x) = 1$ ($y=1$)
1, -1, -2.1, 2.1
- b. Find $f(2)$ ($x=2$) 0

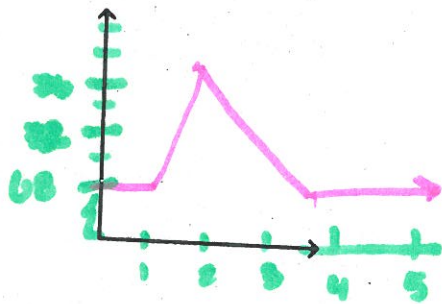


15. The south gym is a steady 68°F (room temp). Hawk fans begin entering the gym for a pep assembly and steadily heat the space. When the assembly ends, 45 minutes later, the gym is 77°. The gym slowly cools back to room temperature over the next 2 hours.

- a. Graph this scenario with time on horizontal axis and temperature on vertical. ✓
- b. Is the temperature of the gym a function of time? (i.e. could you predict the temperature based on the time) yes
- c. Is the time a function of the temperature? (i.e. could you predict the time based on the temperature) no
- d. What is the range of this graph?

$68 \leq y \leq 77$

TEMP



Hours passed

#16-18, Multiple Choice: match the description on axes above to its correct graph shape below.

