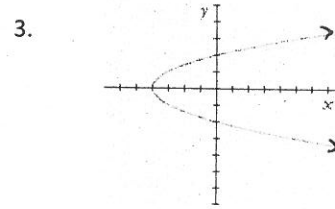
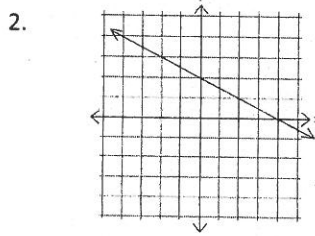
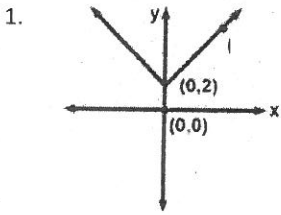
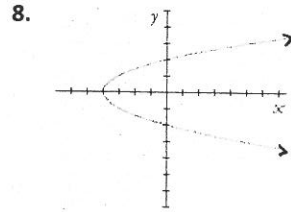
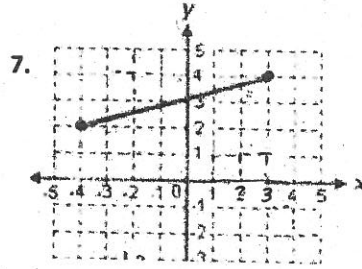
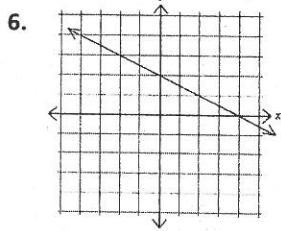
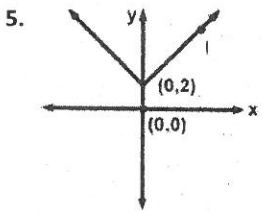


#1-3, Given the information determine whether or not the relationship is a function. Yes or no?



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

#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. $f(5)$

10. $h(-1)$

11. $g(-5)$

12. $f(10)$

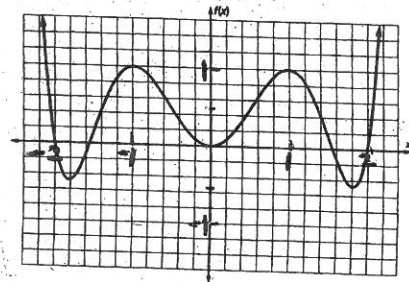
13. Use your graphing calculator.

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

14. Use the graph at right to answer

a. Give two values of x for which $f(x) = 1$

b. Find $f(2)$



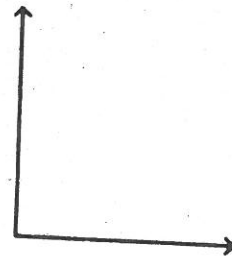
15. The south gym is a steady 68°F (room temp). Hawk fans begin entering the gym for a pep assembly and steadily heat the space. When the assembly ends, 45 minutes later, the gym is 77°. The gym slowly cools back to room temperature over the next 2 hours.

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)

c. Is the time a function of the temperature? (i.e. could you predict the time based on the temperature)

d. What is the range of this graph?



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

