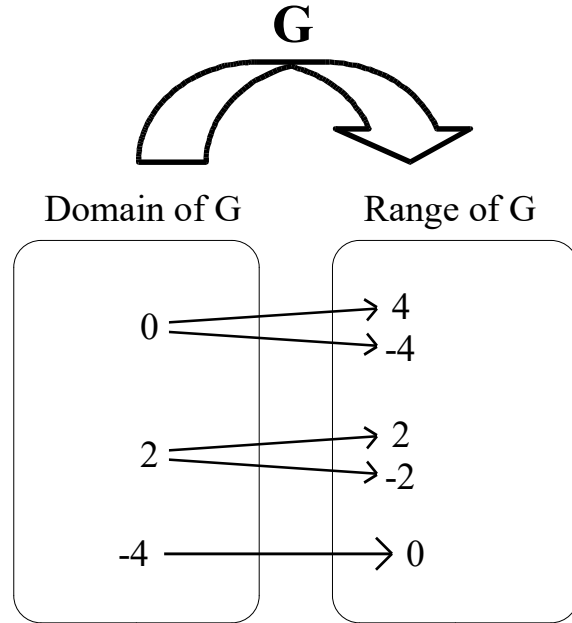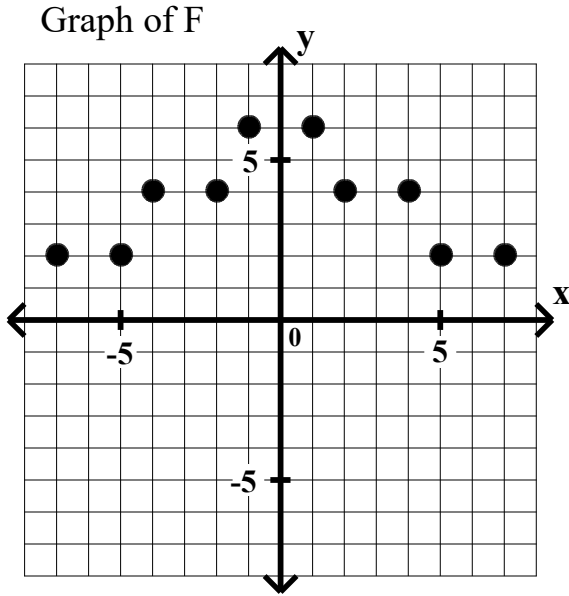# General Algebra 1 Worksheet #4 Unit 8 Selected Solutions

Determine whether or not the relation given in each problem is a function. (Write yes or no.)

__no__ 2. $B = \{ (1,5), (1,4), (1,3), (1,2), (1,1), (1,0) \}$

__yes__ 5. relation F   __no__ 6. relation G

Graph of F

G

Domain of G   Range of G

Given: Functions $f = \{ (x,y) : y = -3x - 1 \}$ and $g = \{ (x,y) : y = -2x^2 \}$. Evaluate each of the following.

10. $f(5) = -3(5) - 1 =$ __-16__   13. $g(5) = -2(5)^2 =$ __-50__

Given the function P defined by this graph.

Graph of P

20. Write an inequality to describe the domain of P? __$-4 \le x \le 7$__

21. Write an inequality to describe the range of P? __$-2 \le x \le 6$__

Evaluate each of the following.

22. $P(-2) =$ __0__

23. $P(0) =$ __-1__

24. $P(5) =$ __4__