

# Algebra 1 Worksheet #3 Unit 8 Selected Solutions

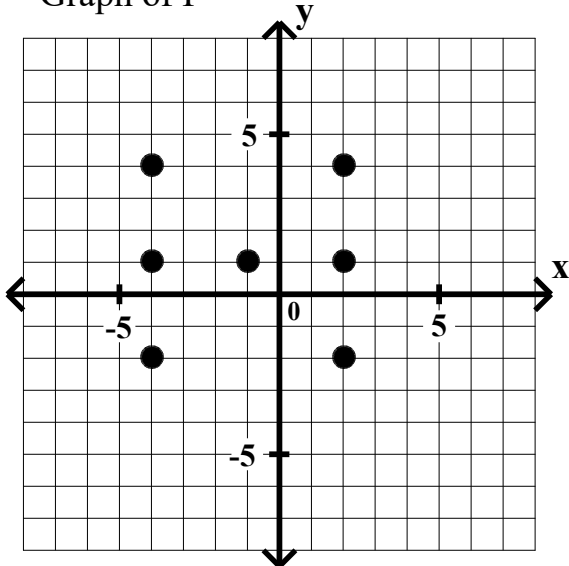
Determine whether or not the relation given in each problem is a function. (Write yes or no.)

yes 2.  $B = \{ (-3, 4), (-2, 3), (-1, 2), (0, 1), (1, 0), (2, -1), (3, -2) \}$

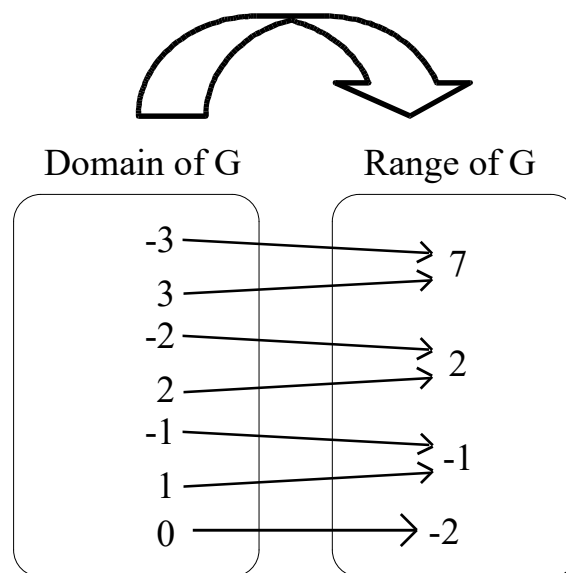
no 5. relation F

yes 6. relation G

Graph of F



G



Given: Functions  $f = \{ (x,y) : y = 3x + 5 \}$  and  $g = \{ (x,y) : y = x^2 \}$ . Evaluate each of the following.

10.  $f(4) = 3(4) + 5 = \underline{17}$

13.  $g(4) = 4^2 = \underline{16}$

Given the function P defined by this graph.

20. Write an inequality to describe the domain of P?  $-5 \leq x \leq 6$

21. Write an inequality to describe the range of P?  $-1 \leq P(x) \leq 5$

Evaluate each of the following.

22.  $P(-3) = \underline{3}$

23.  $P(0) = \underline{4}$

24.  $P(4) = \underline{2}$

Graph of P

