

General Algebra II Worksheet #2 Unit 6 Selected Solutions page 1

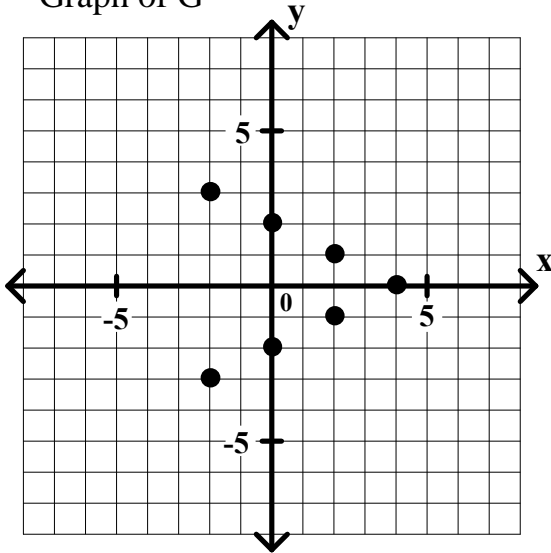
Determine whether or not the relation given in each problem is a function.

no 3. $C = \{(9, 3), (9, -3), (4, 2), (4, -2), (1, 1), (1, -1), (0, 0)\}$

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

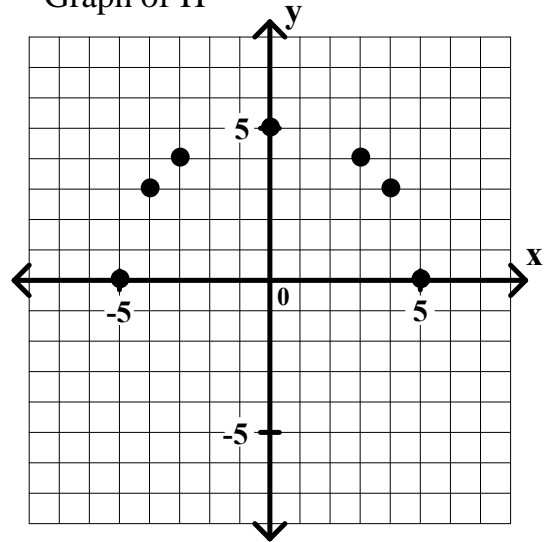
no 7. relation G

Graph of G



yes 8. relation H

Graph of H



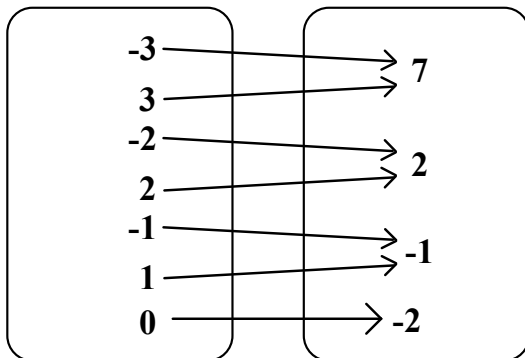
yes 9. relation I

I



Domain of I

Range of I



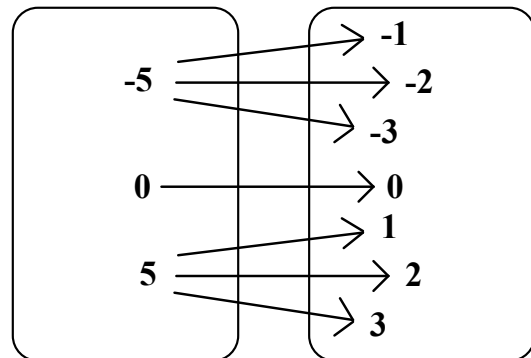
no 11. relation K

K



Domain of K

Range of K



General Algebra II Worksheet #2 Unit 6 Selected Solutions page 2

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

13. $f(-3) = \underline{-4}$

18. $g(4) = \underline{16}$

Given: Functions K and J defined by the equation $K(x) = -2x + 1$ and $J(x) = x^3$. Evaluate each of the following.

31. $K(-3) = \underline{7}$

36. $J(4) = \underline{64}$

Given the function P defined by this graph.

47. What is the domain of P? $\underline{[-4, 7]}$

48. What is the range of P? $\underline{[-3, 3]}$

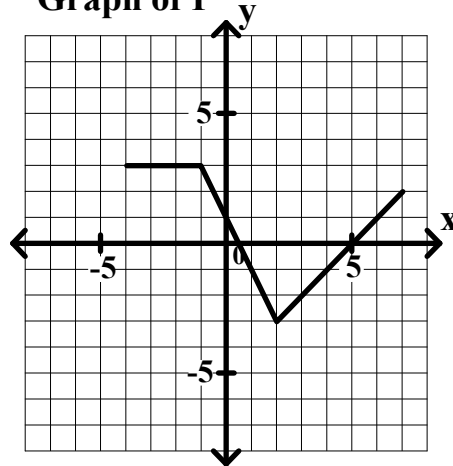
Evaluate each of the following.

49. $P(-2) = \underline{3}$

50. $P(0) = \underline{1}$

51. $P(5) = \underline{0}$

Graph of P



Given the function k defined by this graph.

52. What is the domain of k? $\underline{[-6, 6]}$

53. What is the range of k? $\underline{[4, 7]}$

Evaluate each of the following.

54. $k(-2) = \underline{5}$

55. $k(0) = \underline{7}$

56. $k(5) = \underline{4}$

Graph of k

