

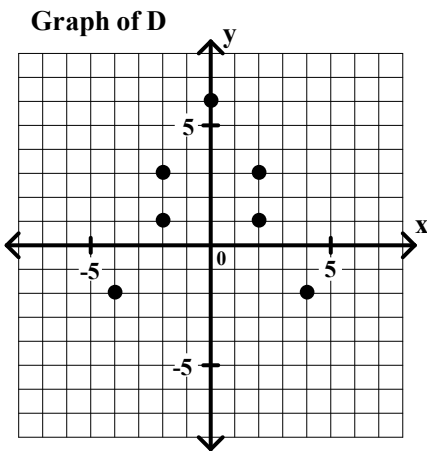
Determine whether or not the relation given in each problem is a function. (Write yes or no.)

_____ 1. $A = \{(5, -5), (3, -3), (1, -1), (0, 0), (1, 1), (3, 3), (5, 5)\}$

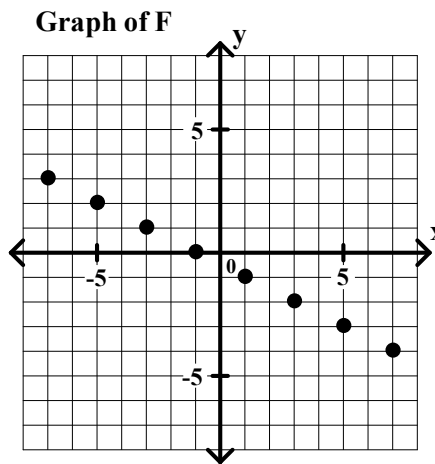
_____ 2. $B = \{(-3, 4), (-2, 4), (-1, 4), (0, 4), (1, 4), (2, 4), (3, 4)\}$

_____ 3. $C = \{(-3, 6), (-2, 4), (-1, 2), (0, 0), (1, -2), (2, -4), (3, -6)\}$

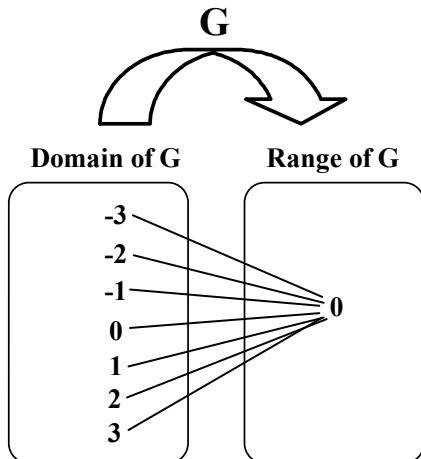
_____ 4. relation D



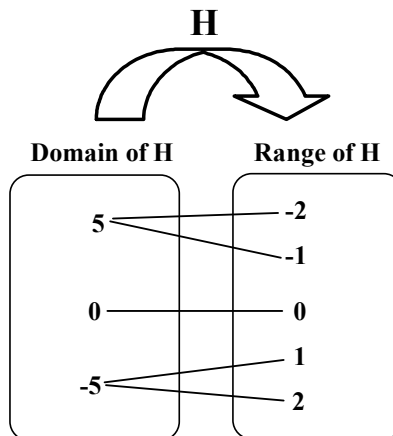
_____ 5. relation F



_____ 6. relation G



_____ 7. relation H



General Algebra II Class Worksheet #2 Unit 6 page 2

Given: Functions $f = \{ (x,y) : y = 3x - 6 \}$ and $g = \{ (x,y) : y = -2x^2 + 3 \}$. Evaluate each of the following.

8. $f(-3) = \underline{\hspace{2cm}}$ 9. $f(0) = \underline{\hspace{2cm}}$ 10. $f(4) = \underline{\hspace{2cm}}$
11. $g(-3) = \underline{\hspace{2cm}}$ 12. $g(0) = \underline{\hspace{2cm}}$ 13. $g(4) = \underline{\hspace{2cm}}$

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

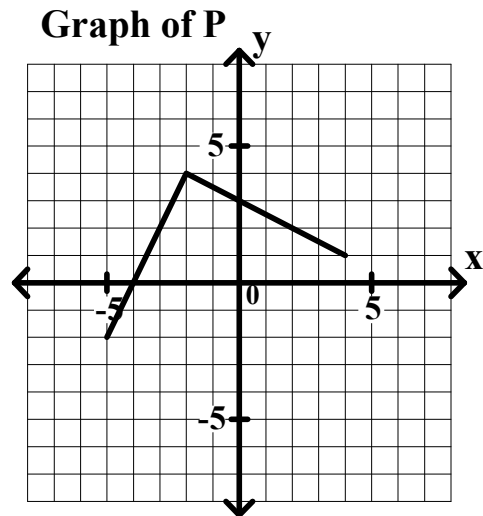
14. $H(-3) = \underline{\hspace{2cm}}$ 15. $H(0) = \underline{\hspace{2cm}}$ 16. $H(4) = \underline{\hspace{2cm}}$
17. $L(-3) = \underline{\hspace{2cm}}$ 18. $L(0) = \underline{\hspace{2cm}}$ 19. $L(4) = \underline{\hspace{2cm}}$

Given the function P defined by this graph.

20. What is the domain of P?
21. What is the range of P?

Evaluate each of the following.

22. $P(-3) = \underline{\hspace{2cm}}$
23. $P(0) = \underline{\hspace{2cm}}$
24. $P(4) = \underline{\hspace{2cm}}$



Given the function k defined by this graph.

25. What is the domain of k?
26. What is the range of k?

Evaluate each of the following.

27. $k(-3) = \underline{\hspace{2cm}}$
28. $k(0) = \underline{\hspace{2cm}}$
29. $k(4) = \underline{\hspace{2cm}}$

