

Algebra II Worksheet #2 Unit 3 page 1

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

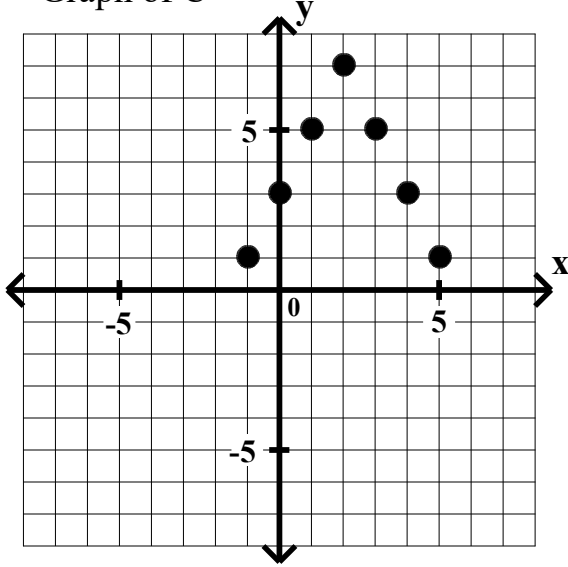
_____ 1. $A = \{ (0, 0), (1, 2), (-1, 2), (2, 4), (-2, 4), (3, 6), (-3, 6) \}$

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

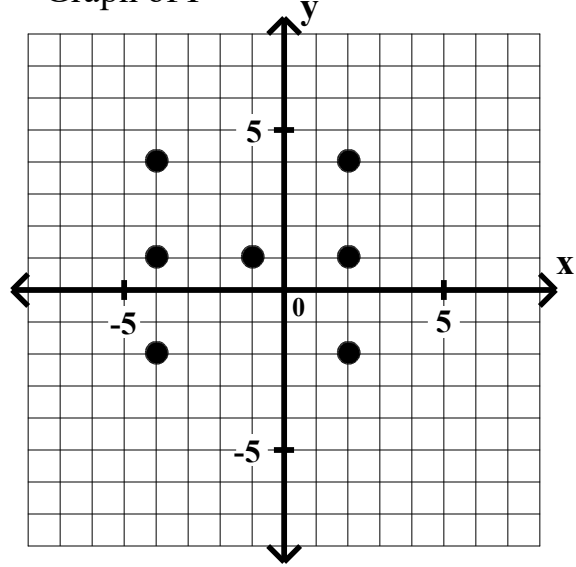
_____ 3. relation C

_____ 4. relation F

Graph of C



Graph of F



_____ 5. relation G

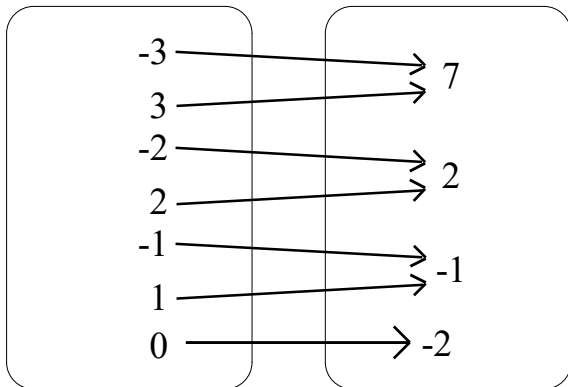
_____ 6. relation H

G

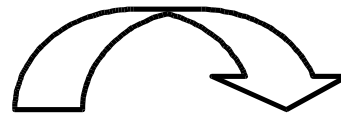


Domain of G

Range of G

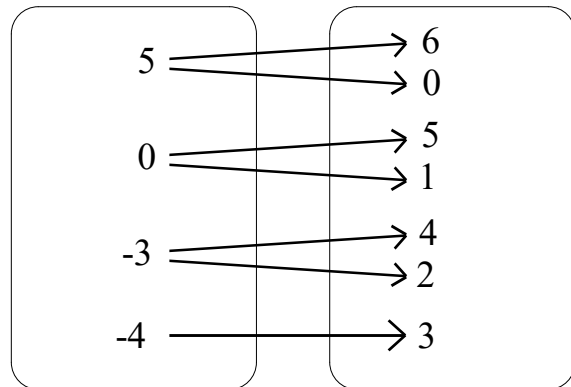


H



Domain of H

Range of H



Algebra II Worksheet #2 Unit 3 page 2

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

7. $f(-4) = \underline{\hspace{2cm}}$ 8. $f(0) = \underline{\hspace{2cm}}$ 9. $f(6) = \underline{\hspace{2cm}}$
 10. $g(-4) = \underline{\hspace{2cm}}$ 11. $g(0) = \underline{\hspace{2cm}}$ 12. $g(6) = \underline{\hspace{2cm}}$

Given: Functions H and L defined by the equation $H(x) = 3x - 5$ and $L(x) = -5x^2 + 5x$. Evaluate each of the following.

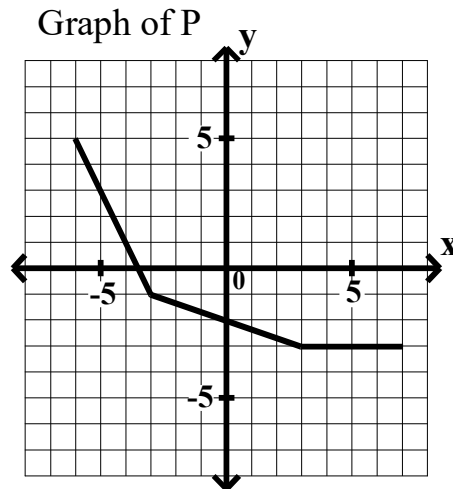
13. $H(-4) = \underline{\hspace{2cm}}$ 14. $H(0) = \underline{\hspace{2cm}}$ 15. $H(6) = \underline{\hspace{2cm}}$
 16. $L(-4) = \underline{\hspace{2cm}}$ 17. $L(0) = \underline{\hspace{2cm}}$ 18. $L(6) = \underline{\hspace{2cm}}$

Given the function P defined by this graph.

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

Evaluate each of the following.

21. $P(-4) = \underline{\hspace{2cm}}$
 22. $P(0) = \underline{\hspace{2cm}}$
 23. $P(6) = \underline{\hspace{2cm}}$



Given the function k defined by this graph.

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

Evaluate each of the following.

26. $k(-4) = \underline{\hspace{2cm}}$
 27. $k(0) = \underline{\hspace{2cm}}$
 28. $k(6) = \underline{\hspace{2cm}}$

