Algebra II Lesson #2 Unit 3
Class Worksheet #2
For Worksheet #2

Algebra II Unit 3 Class Worksheet #2 Functions

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Relation:

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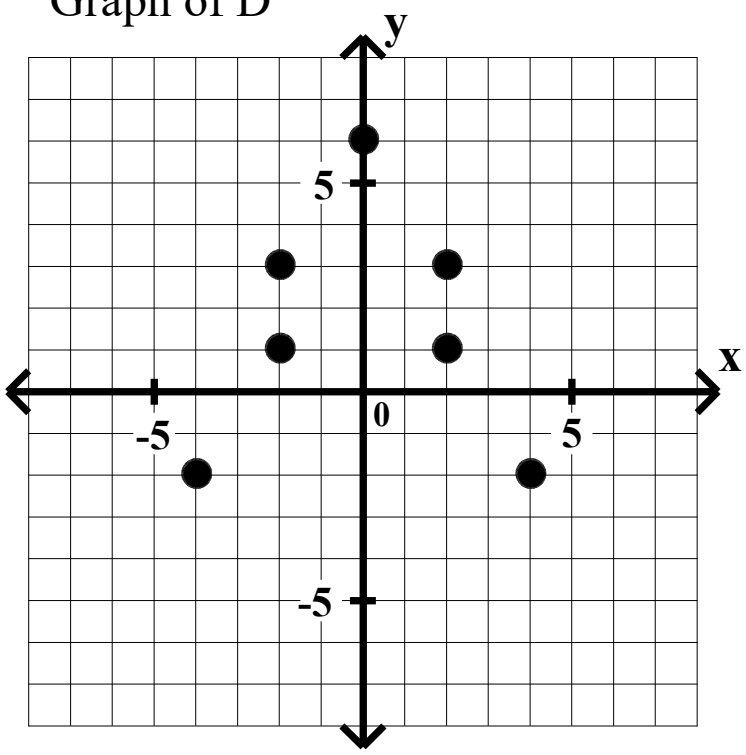
Graph of D



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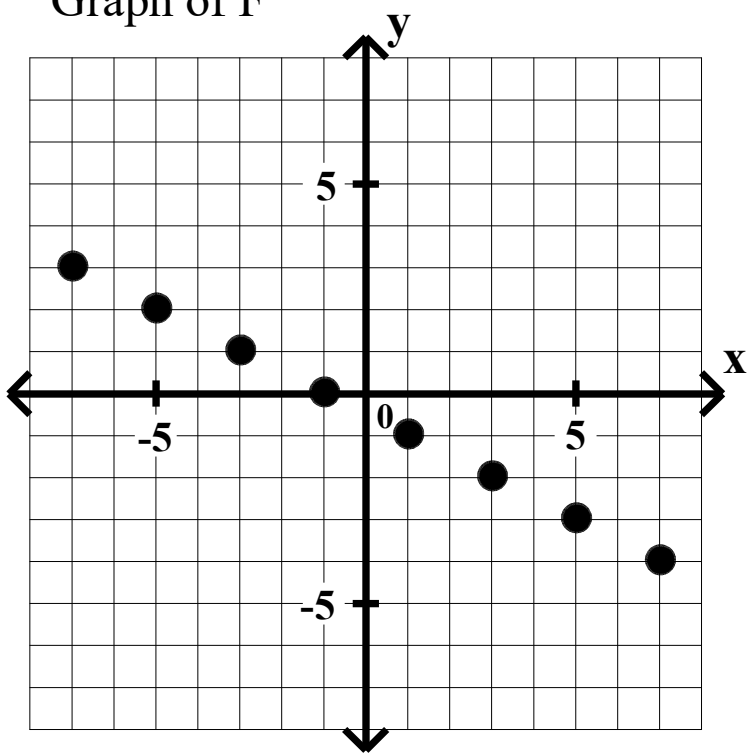

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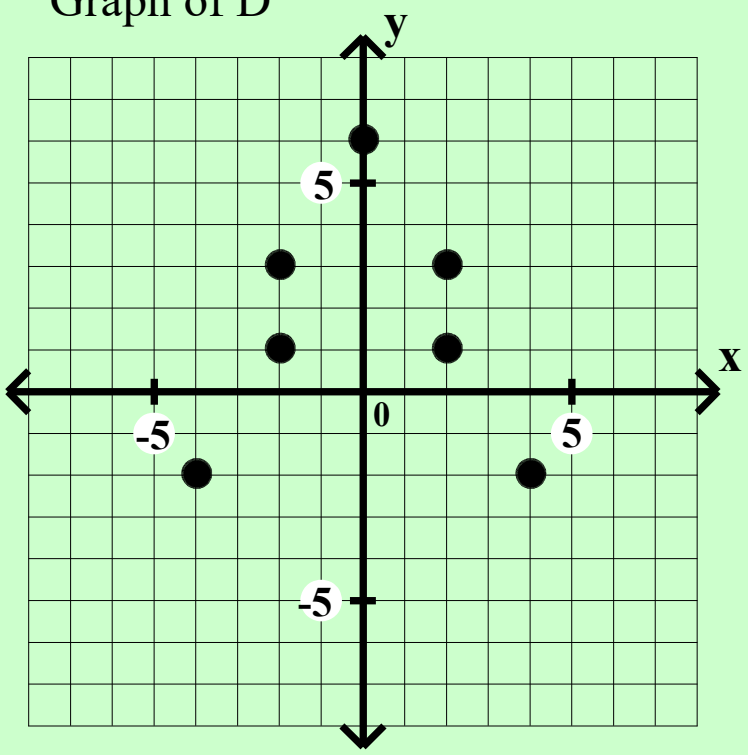

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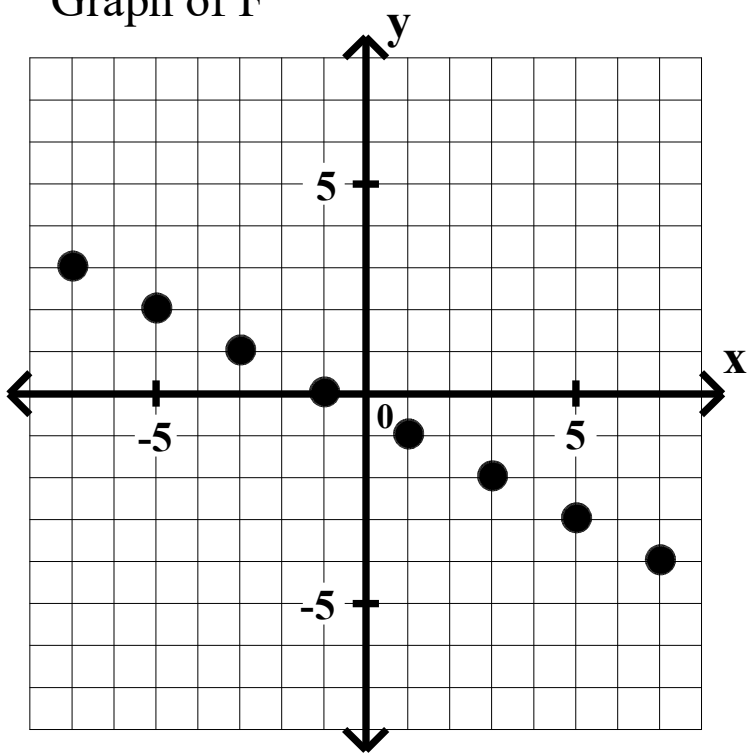

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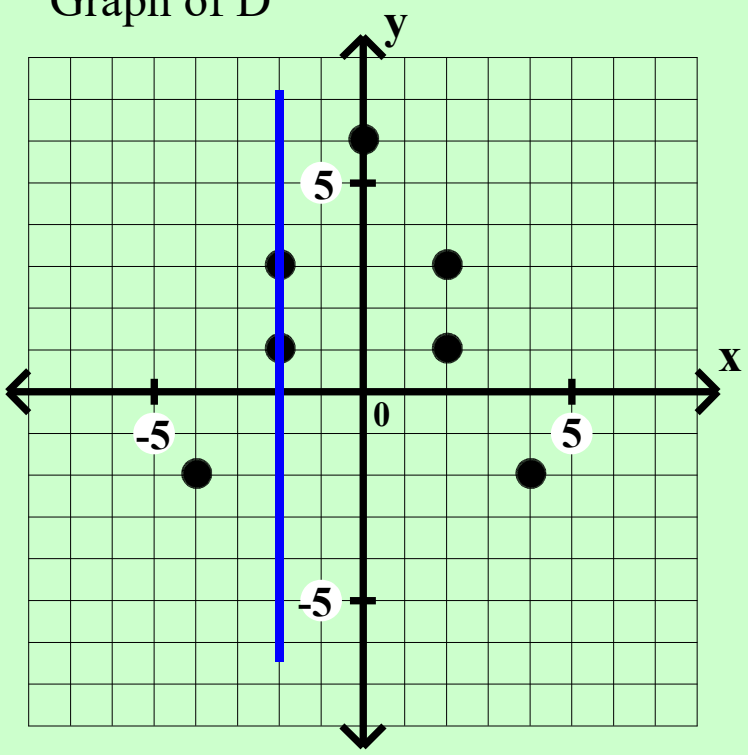

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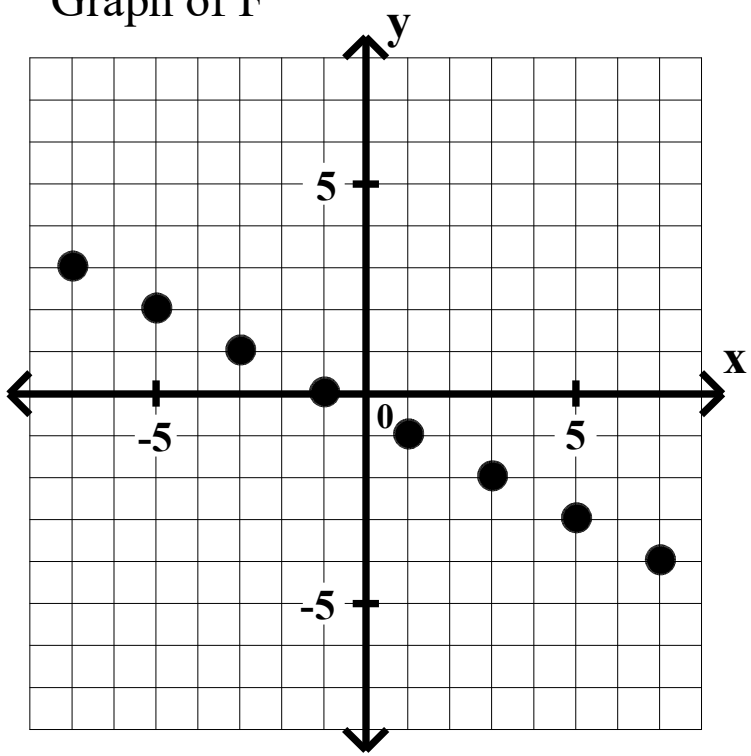

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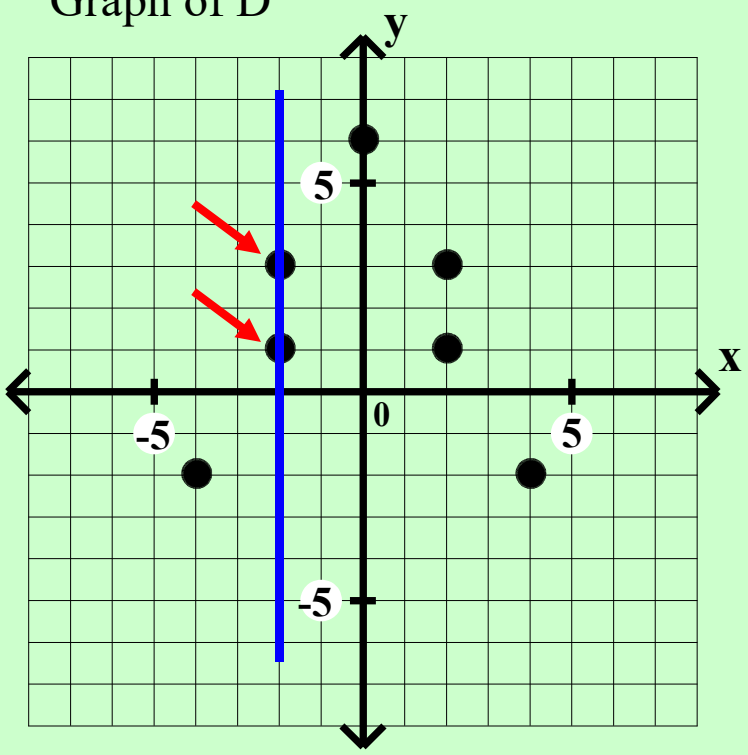

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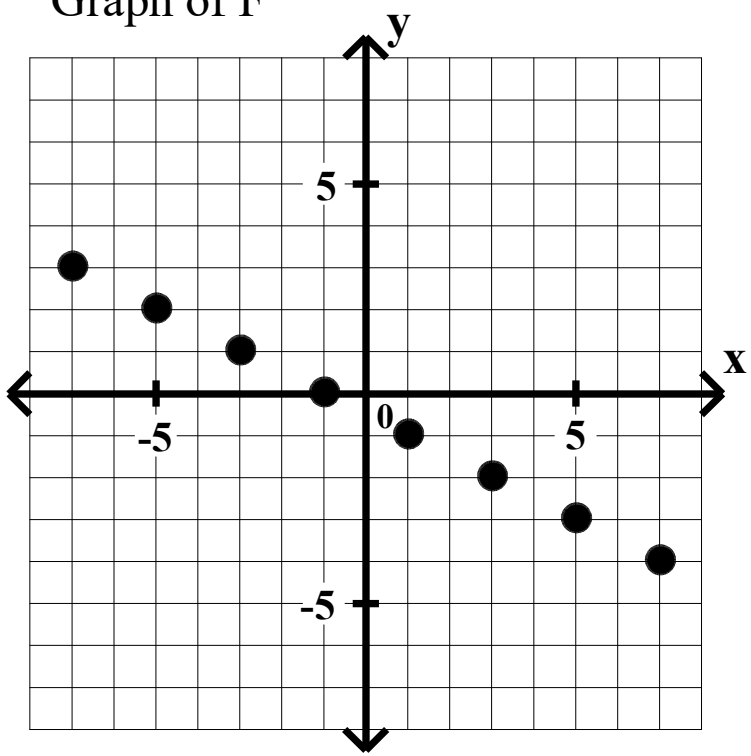

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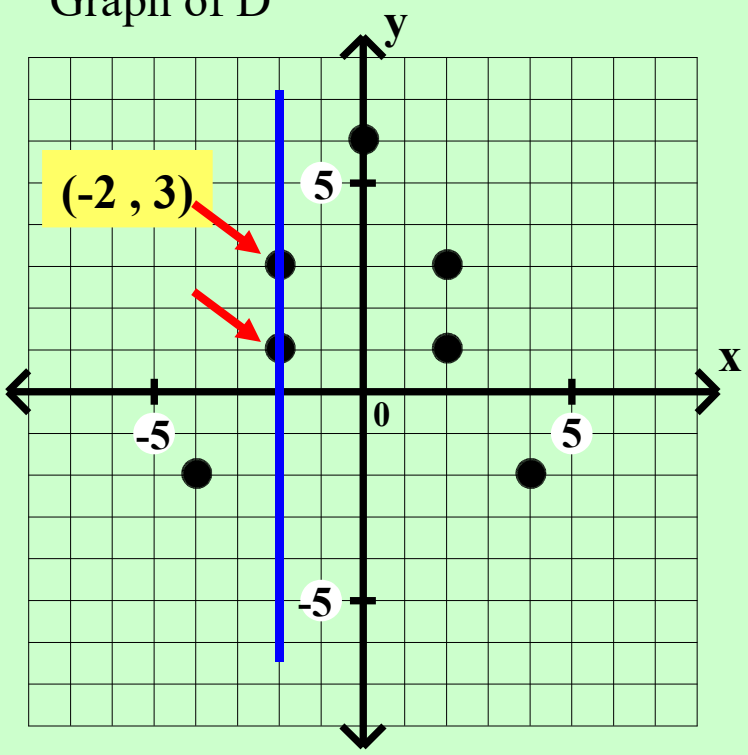

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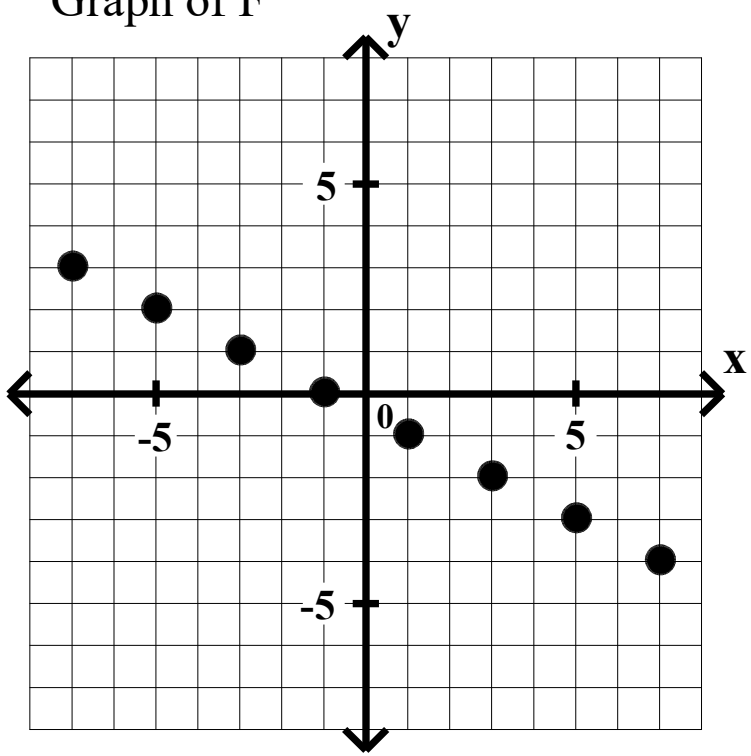

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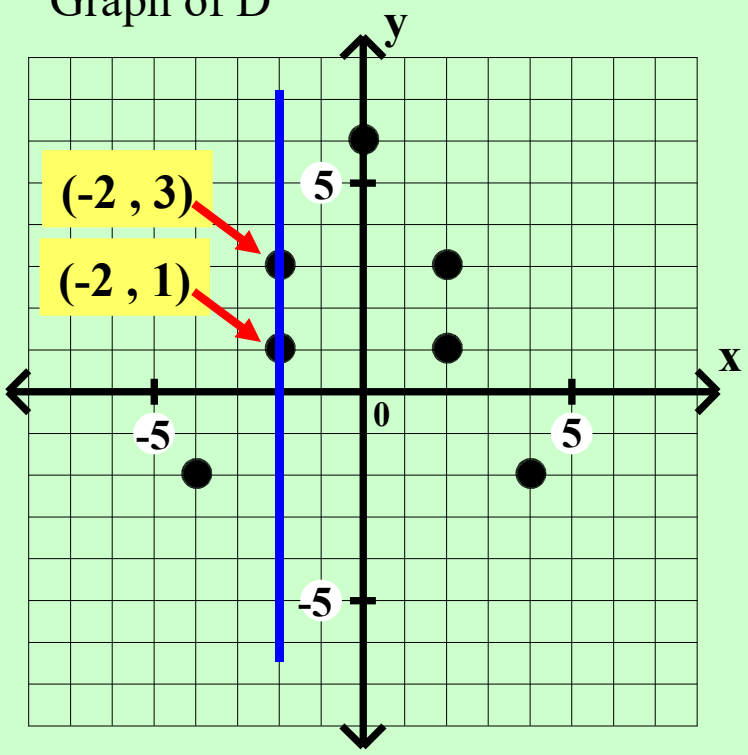

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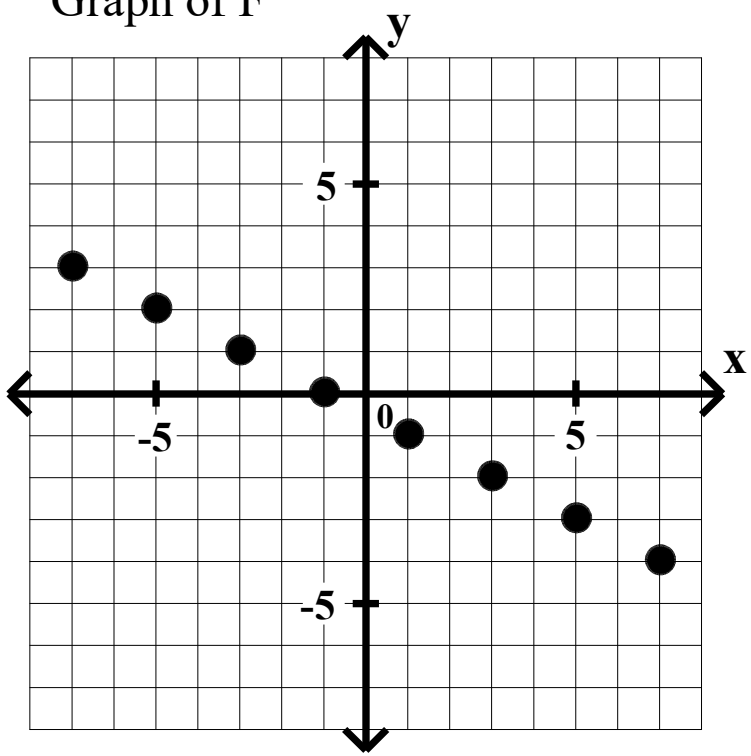

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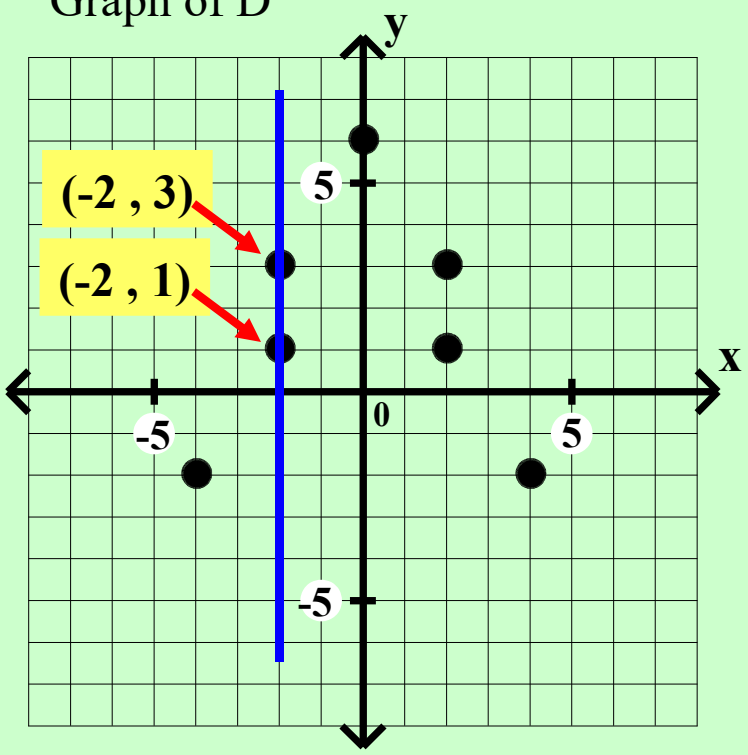

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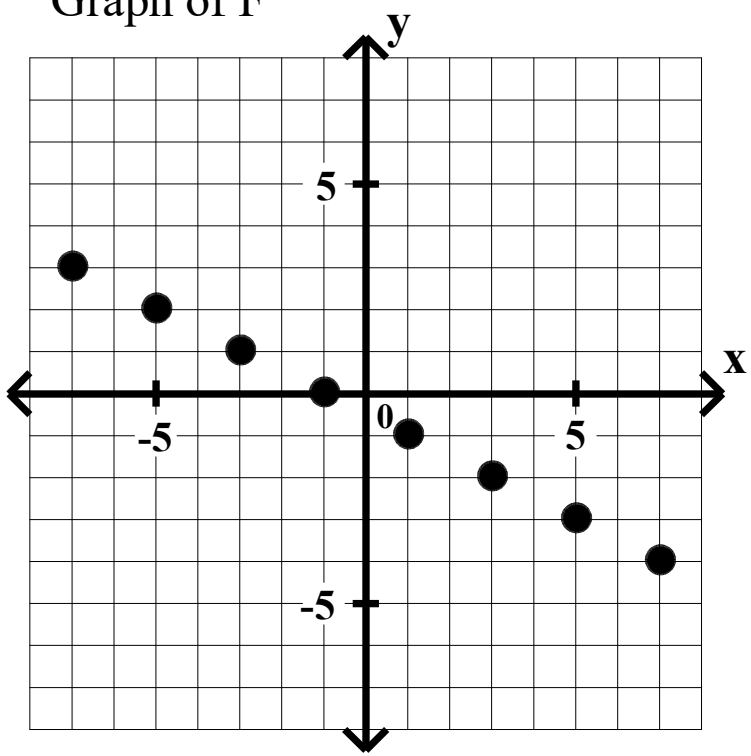

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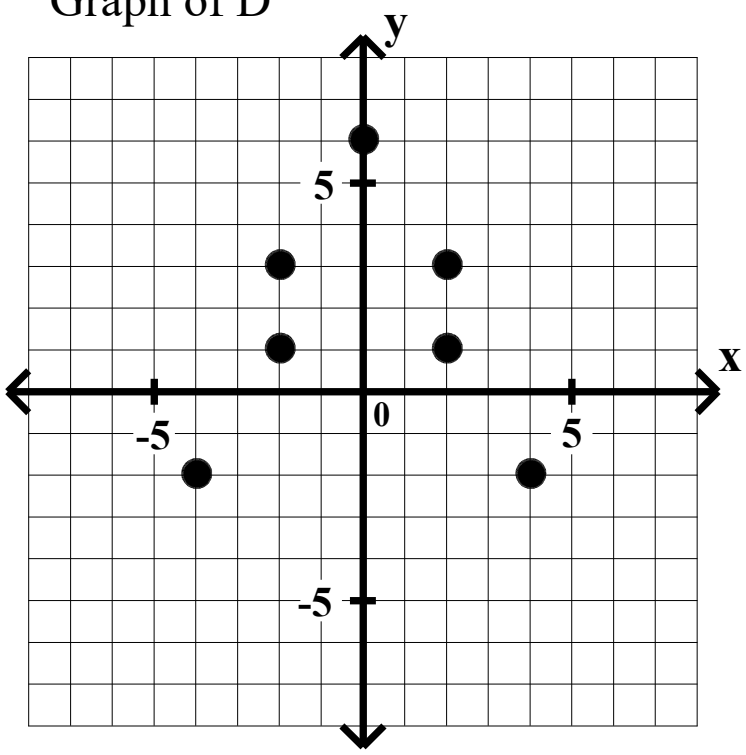

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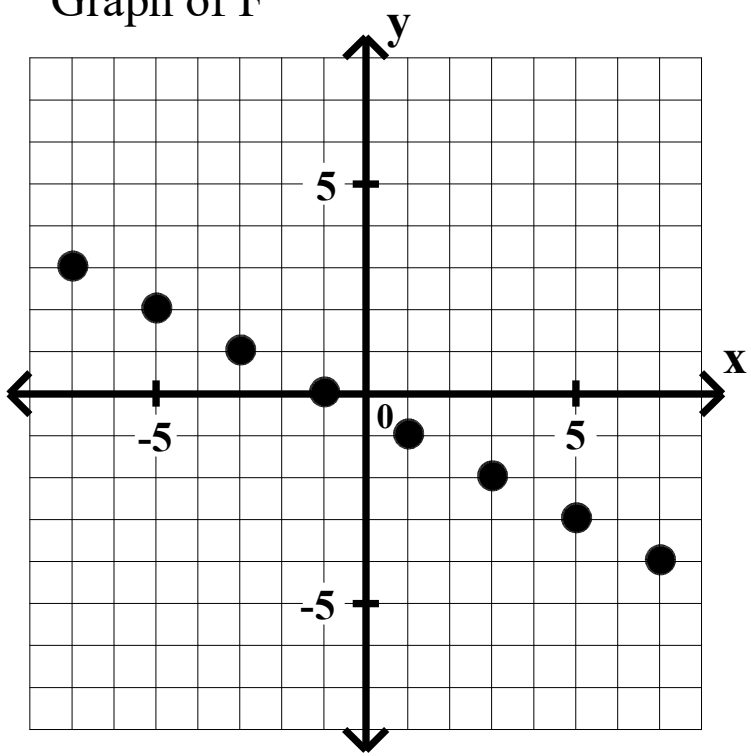

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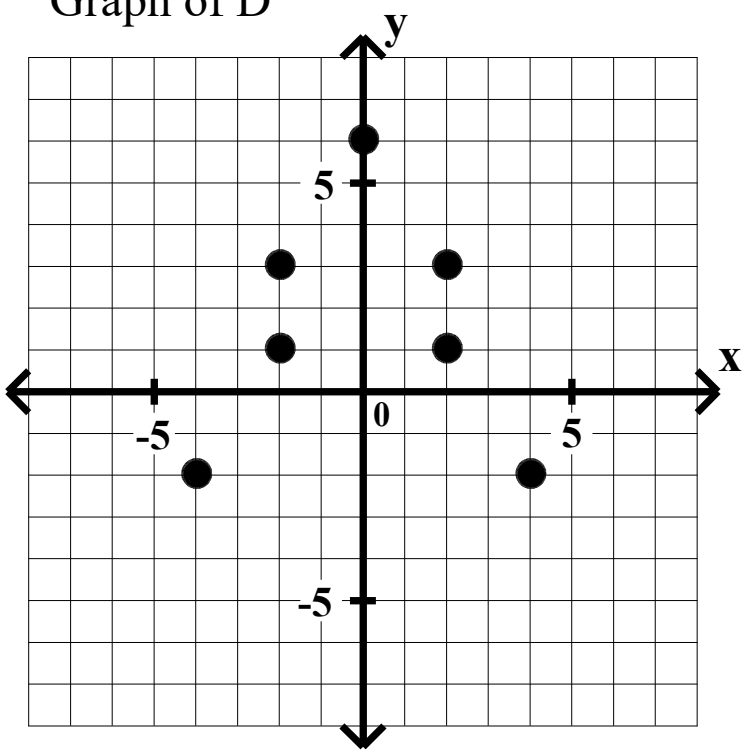

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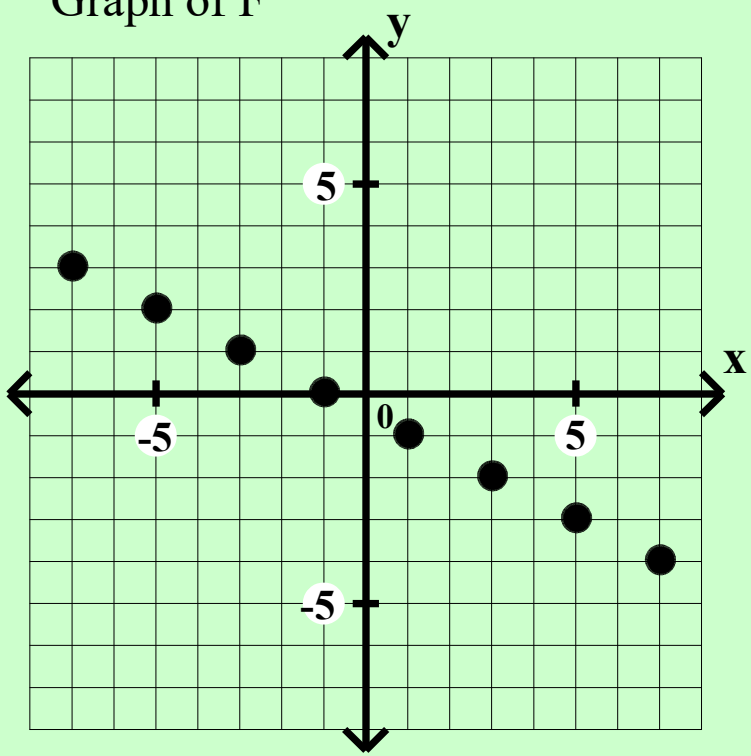

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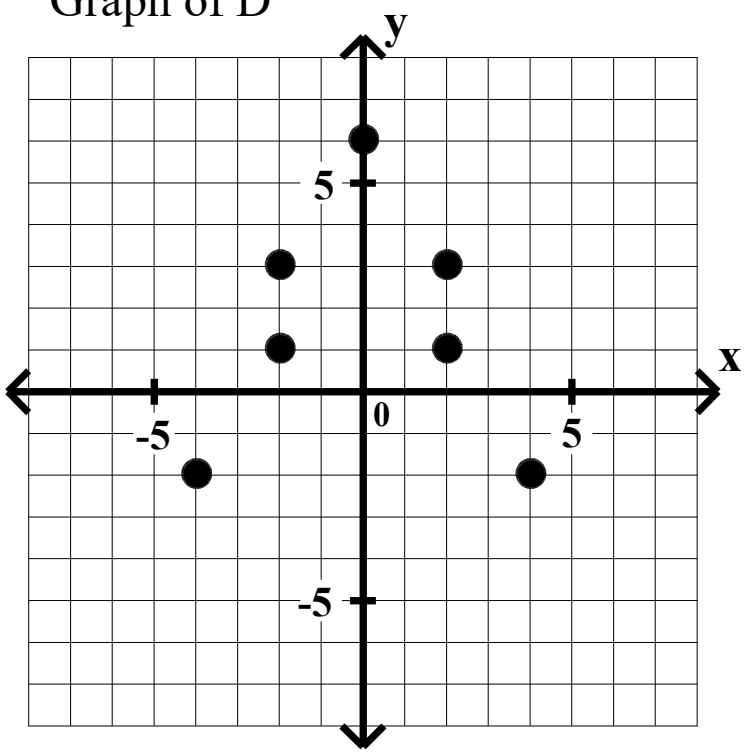

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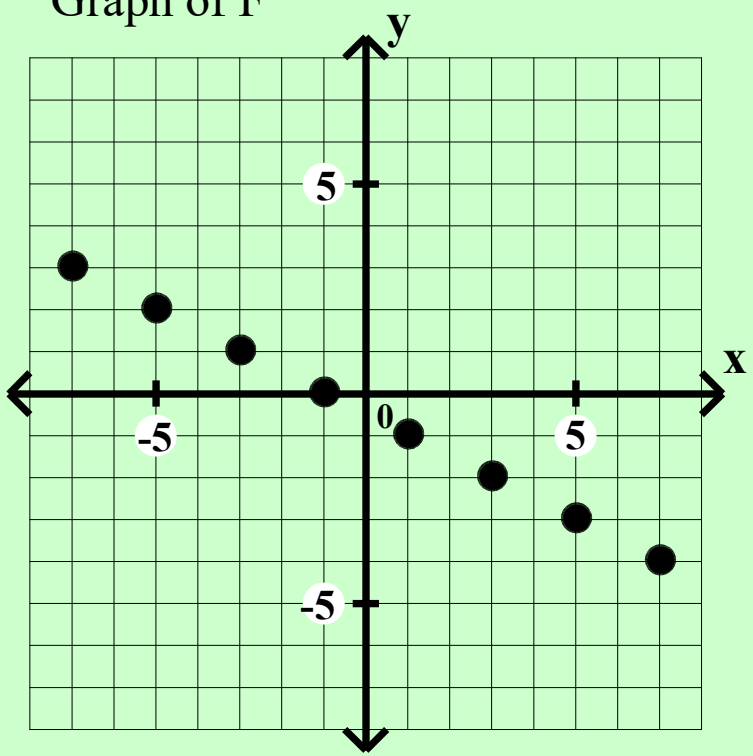

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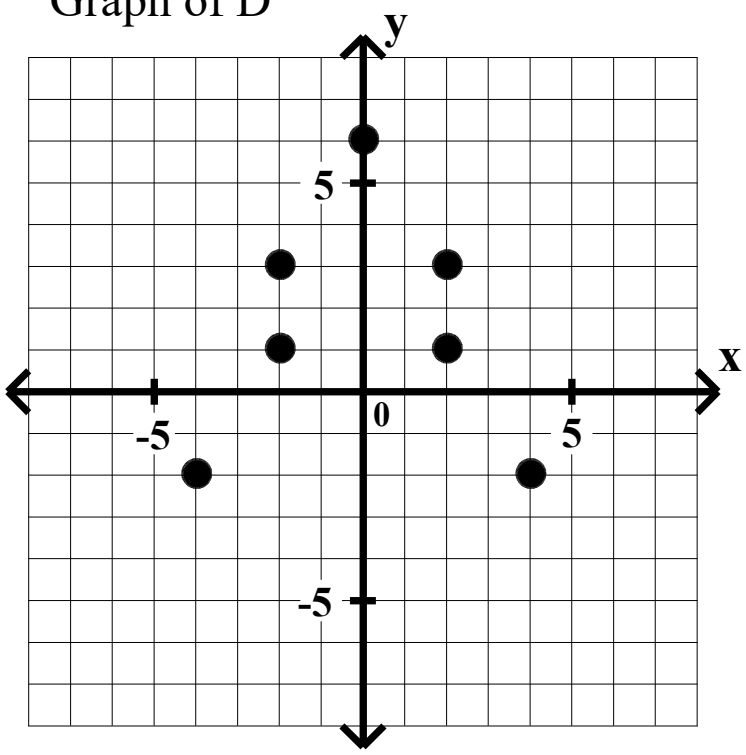

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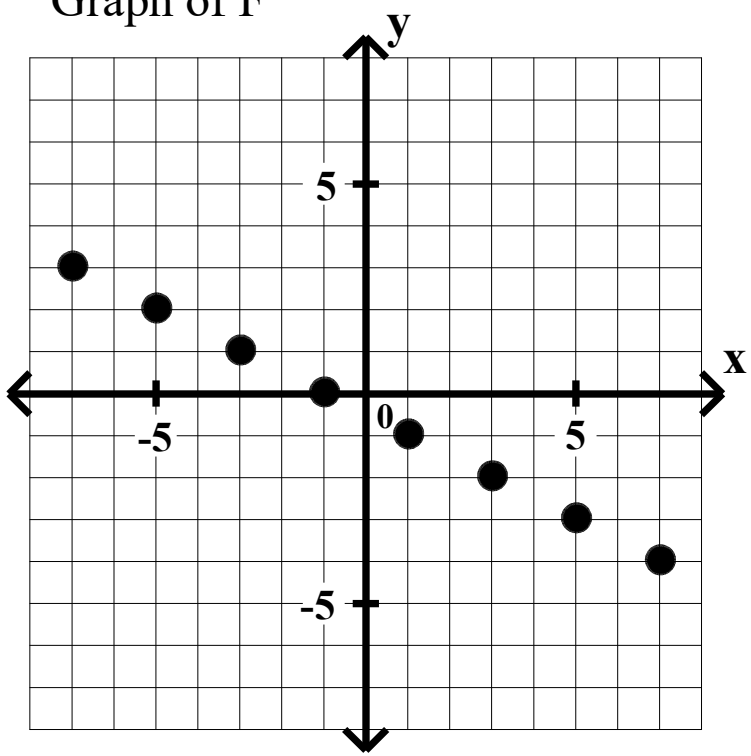

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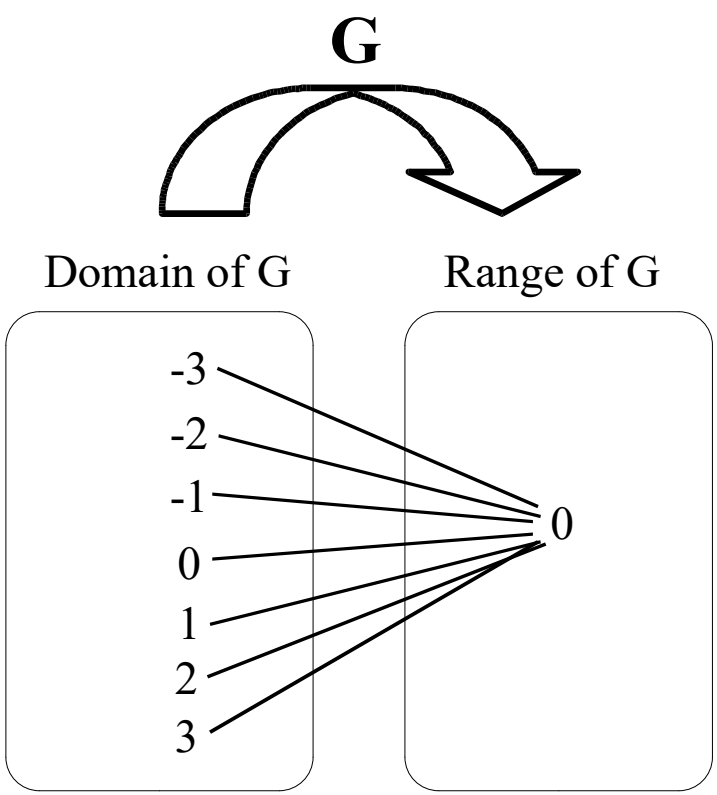

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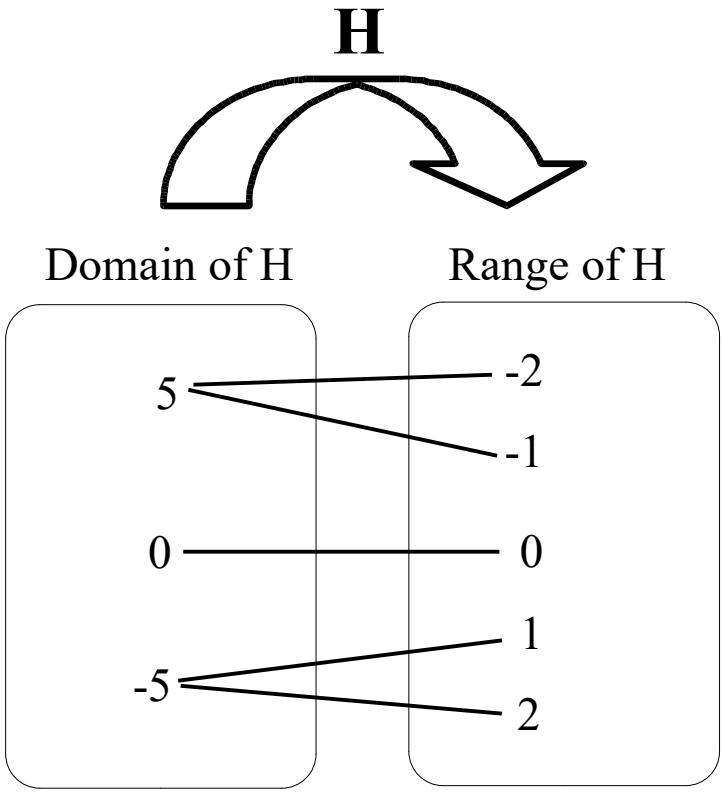

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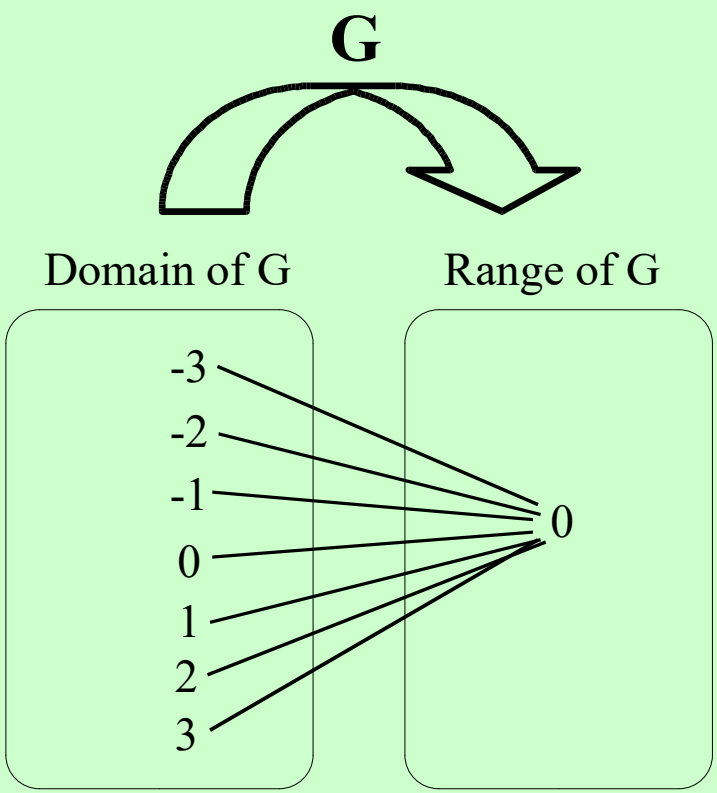

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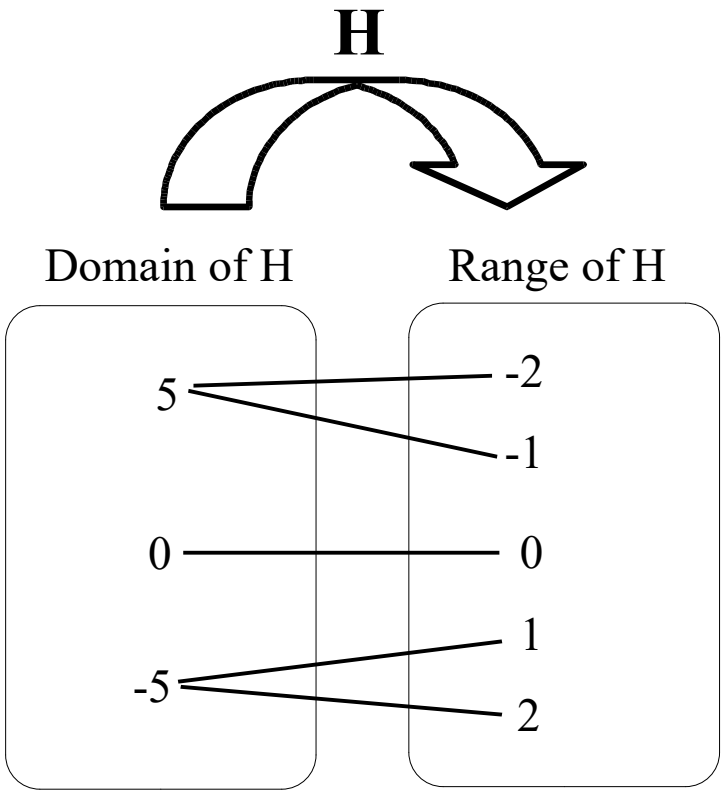

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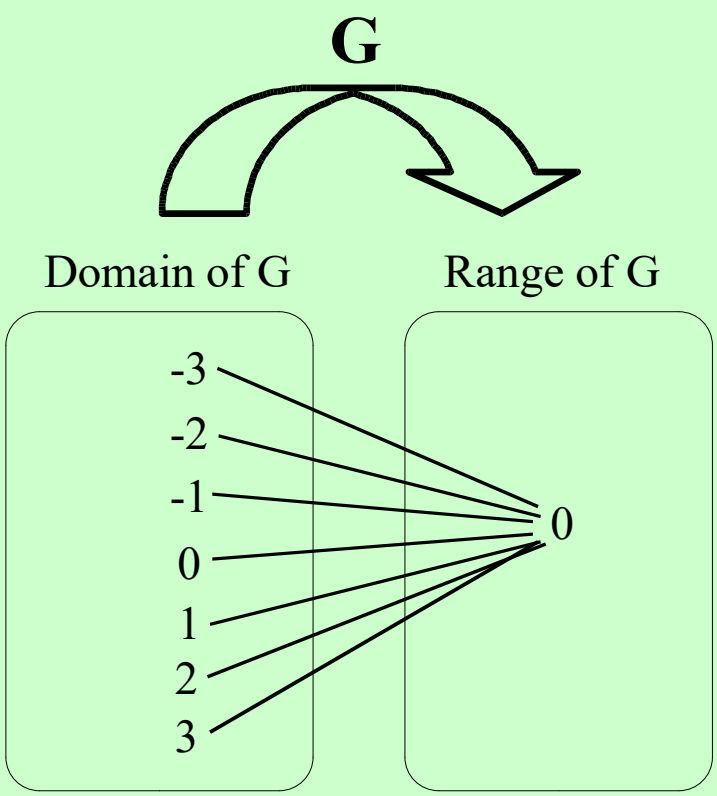

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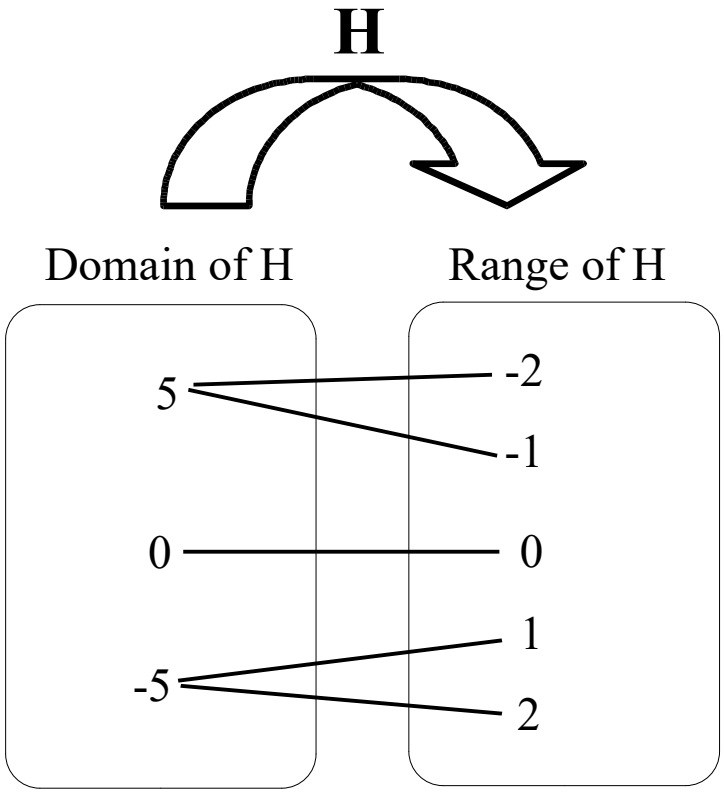

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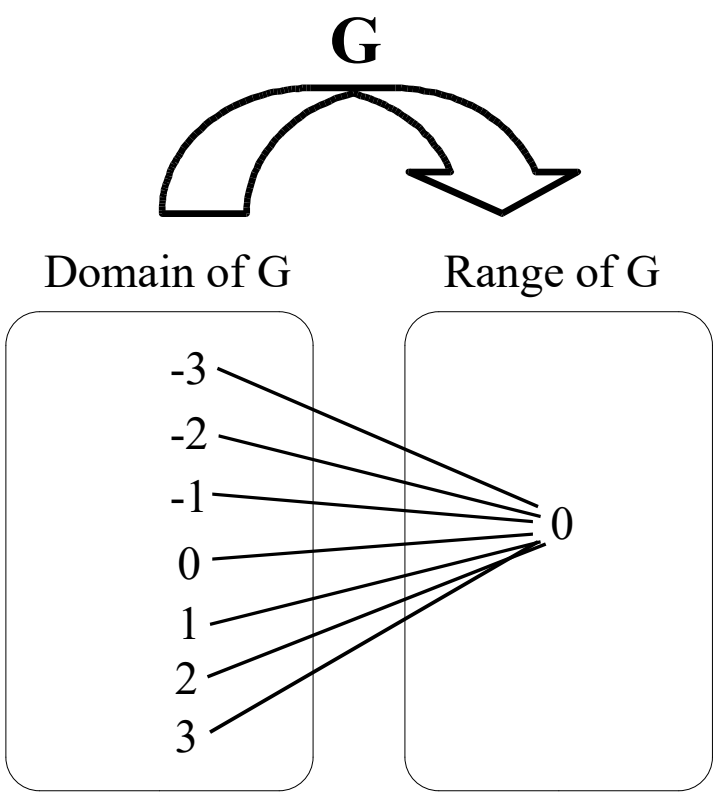

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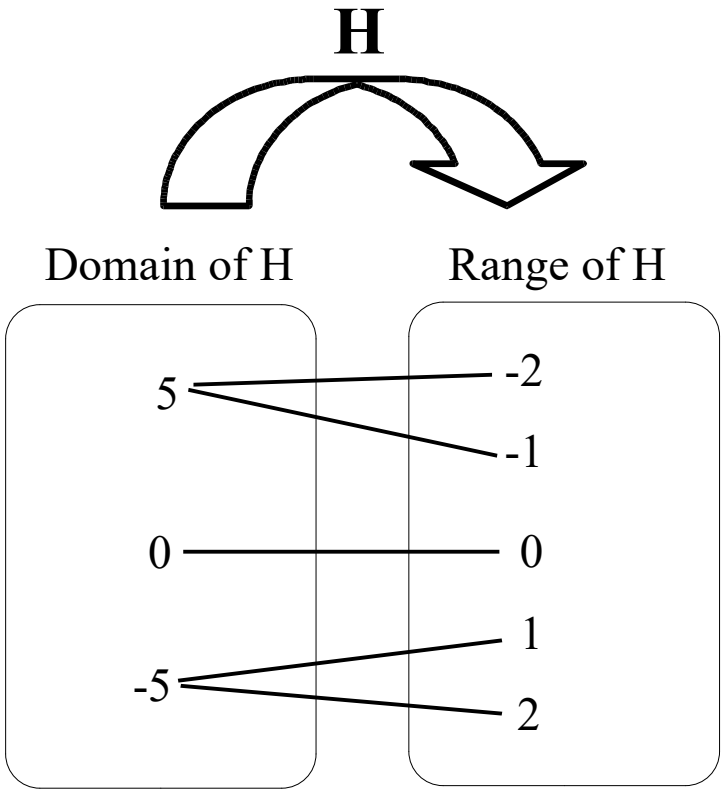

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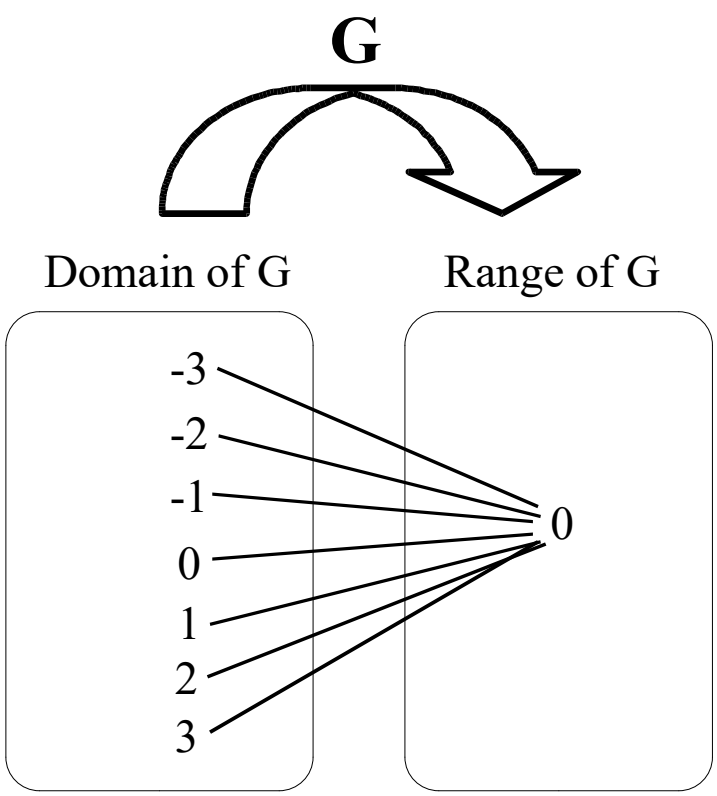

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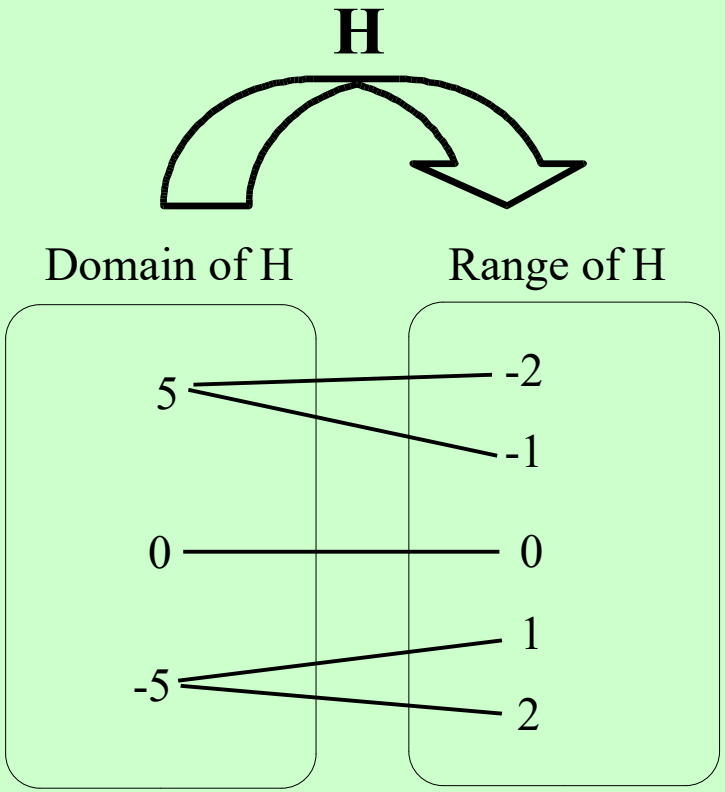

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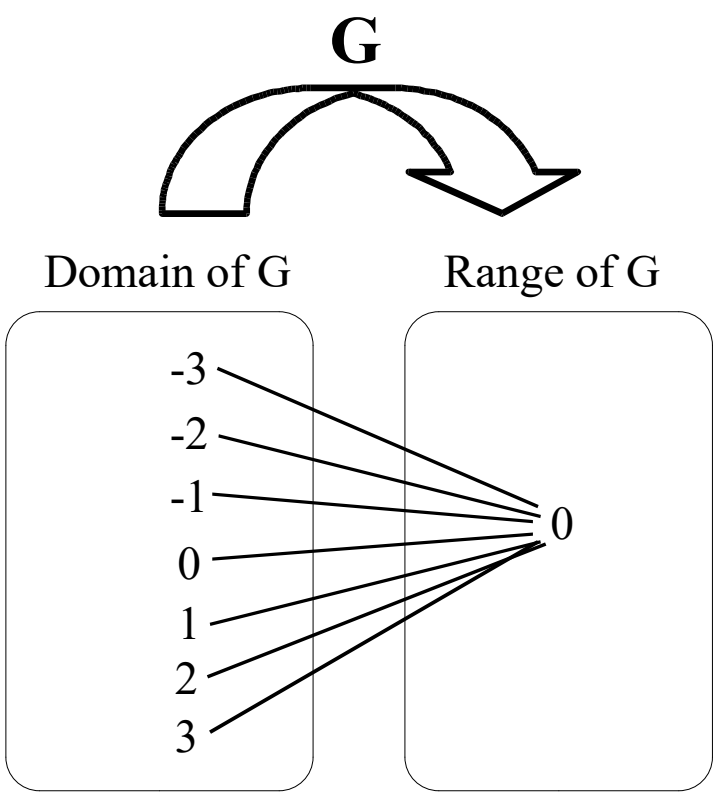

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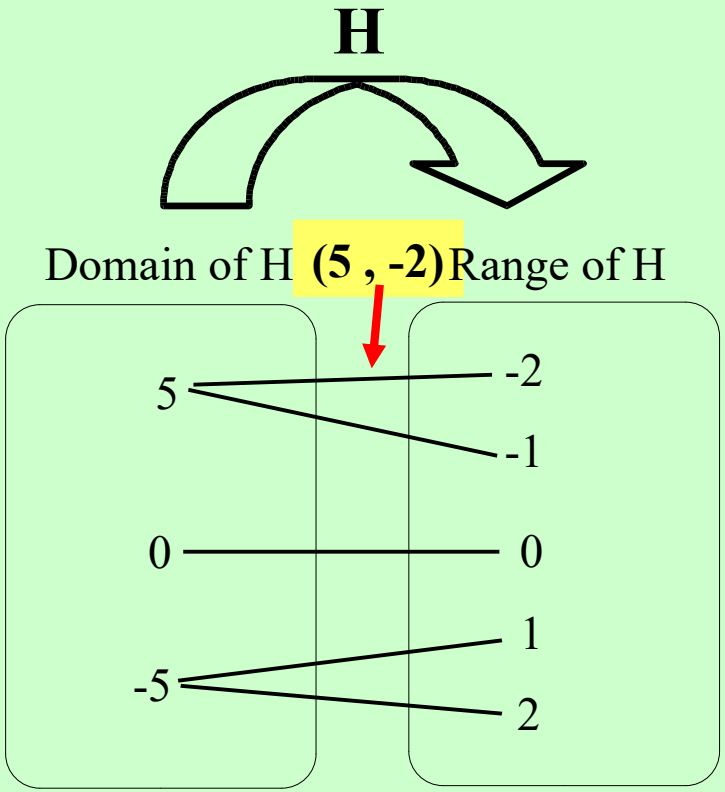

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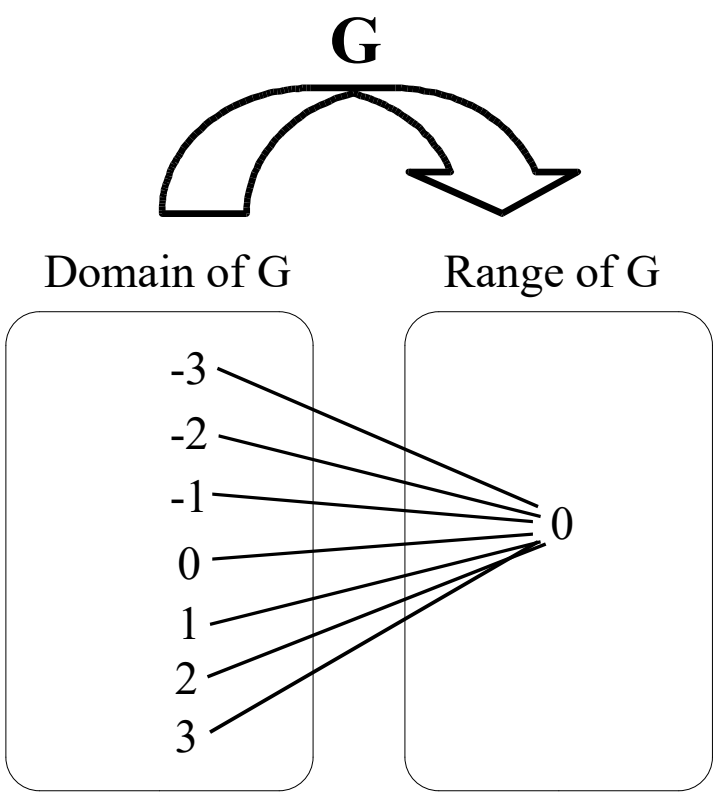

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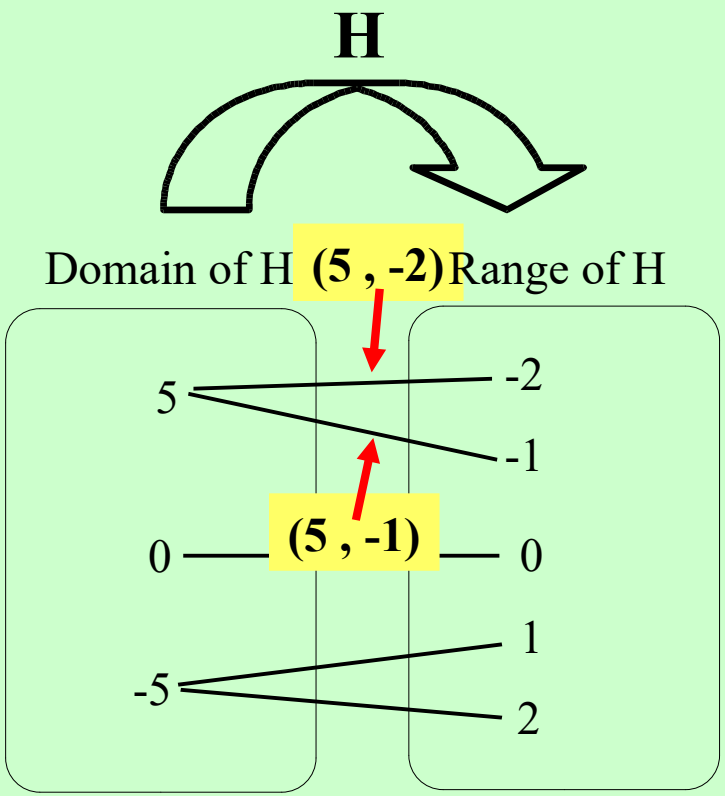

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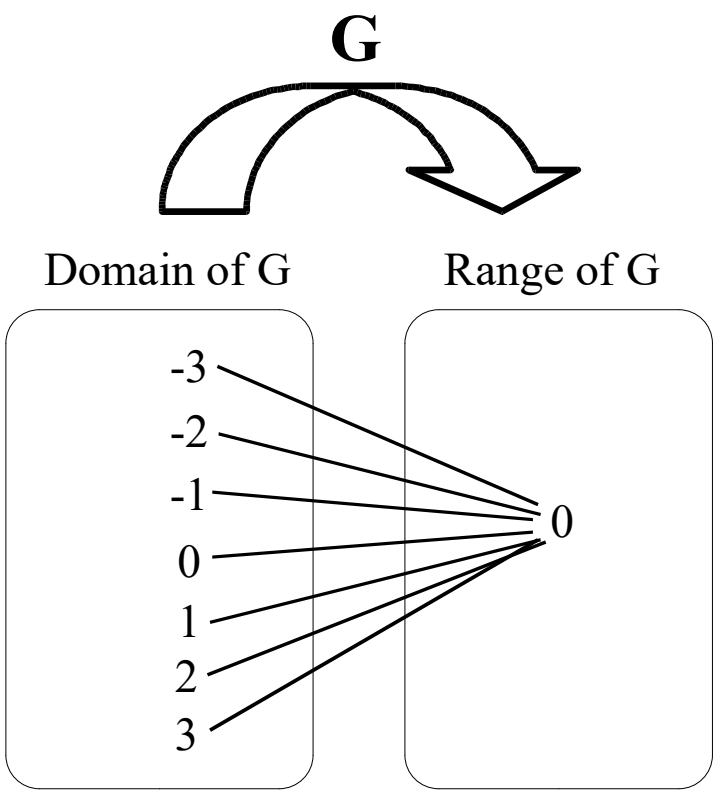

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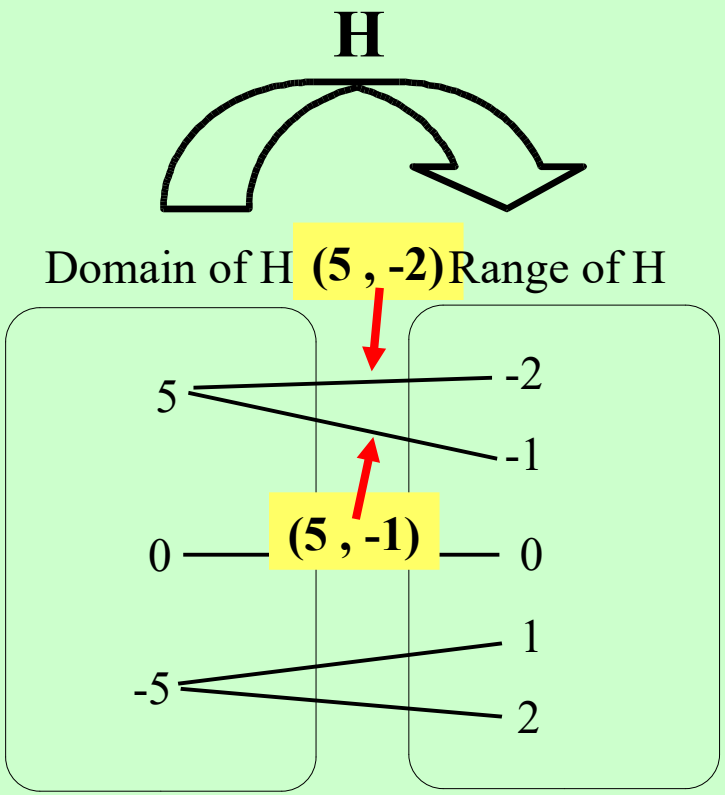

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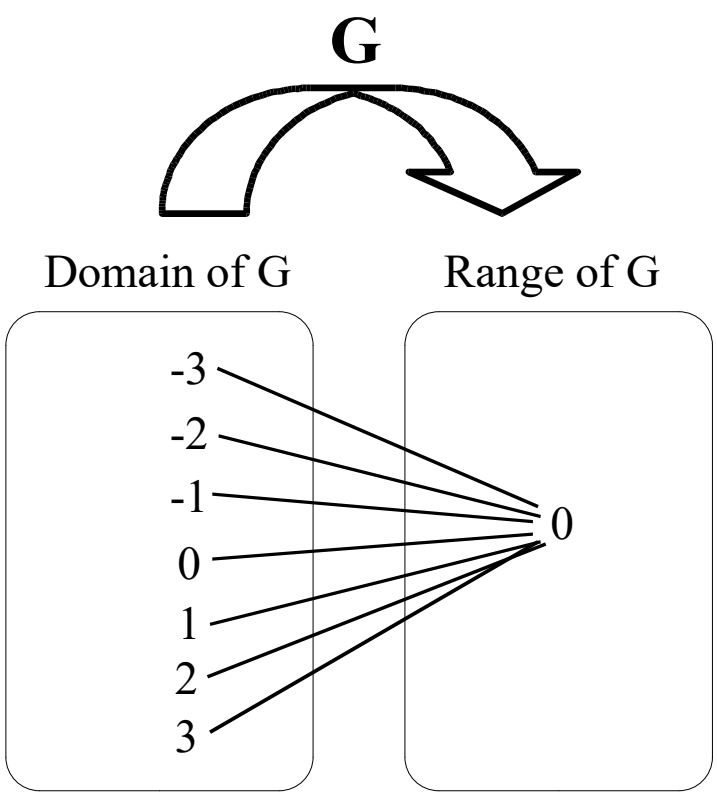

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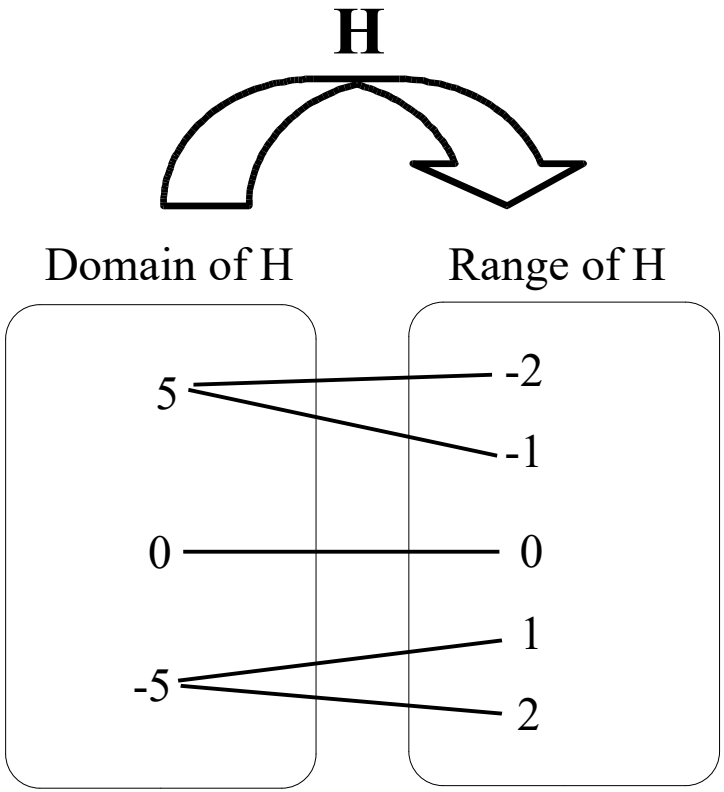

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8. $f(-3) =$ -15
9. $f(0) =$ -6
10. $f(4) =$ 6
11. $g(-3) =$ -15
12. $g(0) =$ _____
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 =$$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with <u>exactly one</u> value of y.

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

8. $f(-3) =$ -15
9. $f(0) =$ -6
10. $f(4) =$ 6
11. $g(-3) =$ -15
12. $g(0) =$ 3
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

Algebra II Unit 3 Class Worksheet #2 Functions

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12. $g(0) =$ 3
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

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Evaluate each of the following.

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9. $f(0) =$ -6
10. $f(4) =$ 6
11. $g(-3) =$ -15
12. $g(0) =$ 3
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

g(4) 'means' the value of y when x = 4 in the function g.

Algebra II Unit 3 Class Worksheet #2 Functions

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Evaluate each of the following.

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9. $f(0) =$ -6
10. $f(4) =$ 6
11. $g(-3) =$ -15
12. $g(0) =$ 3
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

g(4) 'means' the value of y when x = 4 in the function g.

$$g(4) = -2(4)^2 + 3 =$$

Algebra II Unit 3 Class Worksheet #2 Functions

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11. $g(-3) =$ -15
12. $g(0) =$ 3
13. $g(4) =$ _____

g(-3) 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

g(0) 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

g(4) 'means' the value of y when x = 4 in the function g.

$$g(4) = -2(4)^2 + 3 = -2(16) + 3 =$$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

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

8. $f(-3) =$ -15
9. $f(0) =$ -6
10. $f(4) =$ 6
11. $g(-3) =$ -15
12. $g(0) =$ 3
13. $g(4) =$ -29

$g(-3)$ 'means' the value of y when x = -3 in the function g.

$$g(-3) = -2(-3)^2 + 3 = -2(9) + 3 = -15$$

$g(0)$ 'means' the value of y when x = 0 in the function g.

$$g(0) = -2(0)^2 + 3 = 3$$

$g(4)$ 'means' the value of y when x = 4 in the function g.

$$g(4) = -2(4)^2 + 3 = -2(16) + 3 = -29$$

Algebra II Unit 3 Class Worksheet #2 Functions

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13. $g(4) =$ -29

Algebra II Unit 3 Class Worksheet #2 Functions

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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) = _____ **15. H(0) = _____** **16. H(4) = _____**

17. L(-3) = _____ **18. L(0) = _____** **19. L(4) = _____**

Algebra II Unit 3 Class Worksheet #2 Functions

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14. $H(-3) =$ _____

15. $H(0) =$ _____

16. $H(4) =$ _____

17. $L(-3) =$ _____

18. $L(0) =$ _____

19. $L(4) =$ _____

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14. $H(-3) =$ _____

15. $H(0) =$ _____

16. $H(4) =$ _____

17. $L(-3) =$ _____

18. $L(0) =$ _____

19. $L(4) =$ _____

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14. $H(-3) =$ _____

15. $H(0) =$ _____

16. $H(4) =$ _____

17. $L(-3) =$ _____

18. $L(0) =$ _____

19. $L(4) =$ _____

$$H(x) = -2x + 1$$

Algebra II Unit 3 Class Worksheet #2 Functions

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

14. $H(-3) =$ _____ 15. $H(0) =$ _____ 16. $H(4) =$ _____

17. $L(-3) =$ _____ 18. $L(0) =$ _____ 19. $L(4) =$ _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 =$$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

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

14. $H(-3) = \underline{\quad 7 \quad}$
15. $H(0) = \underline{\qquad}$
16. $H(4) = \underline{\qquad}$
17. $L(-3) = \underline{\qquad}$
18. $L(0) = \underline{\qquad}$
19. $L(4) = \underline{\qquad}$

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

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

14. $H(-3) = \_7\_$
15. $H(0) = \_\_\_\_\_$
16. $H(4) = \_\_\_\_\_$
17. $L(-3) = \_\_\_\_\_$
18. $L(0) = \_\_\_\_\_$
19. $L(4) = \_\_\_\_\_$

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

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14. $H(-3) =$ 7

15. $H(0) =$ _____

16. $H(4) =$ _____

17. $L(-3) =$ _____

18. $L(0) =$ _____

19. $L(4) =$ _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

$$H(0) = -2(0) + 1 =$$

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14. $H(-3) =$ 7

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16. $H(4) =$ _____

17. $L(-3) =$ _____

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19. $L(4) =$ _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

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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) = 7 **15. H(0) = 1** **16. H(4) = _____**

17. L(-3) = _____ **18. L(0) = _____** **19. L(4) = _____**

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

$$H(0) = -2(0) + 1 = 1$$

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14. $H(-3) = \_7\_\_$
15. $H(0) = \_1\_\_$
16. $H(4) = \_\_\_\_\_$
17. $L(-3) = \_\_\_\_\_$
18. $L(0) = \_\_\_\_\_$
19. $L(4) = \_\_\_\_\_$

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

$$H(0) = -2(0) + 1 = 1$$

$$H(4) = -2(4) + 1 =$$

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14. $H(-3) = 7$ 15. $H(0) = 1$ 16. $H(4) = -7$

17. $L(-3) =$ _____ 18. $L(0) =$ _____ 19. $L(4) =$ _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

$$H(0) = -2(0) + 1 = 1$$

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16. $H(4) =$ -7
17. $L(-3) =$ _____
18. $L(0) =$ _____
19. $L(4) =$ _____

$$H(x) = -2x + 1$$

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18. L(0) = _____
19. L(4) = _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

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$$H(4) = -2(4) + 1 = -7$$

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17. L(-3) = _____ 18. L(0) = _____ 19. L(4) = _____

$$H(x) = -2x + 1$$

$$H(-3) = -2(-3) + 1 = 7$$

$$H(0) = -2(0) + 1 = 1$$

$$H(4) = -2(4) + 1 = -7$$

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14. $H(-3) =$ 7

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16. $H(4) =$ -7

17. $L(-3) =$ _____

18. $L(0) =$ _____

19. $L(4) =$ _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$

$H(0) = -2(0) + 1 = 1$

$H(4) = -2(4) + 1 = -7$

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17. $L(-3) =$ _____ 18. $L(0) =$ _____ 19. $L(4) =$ _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 =$

$H(0) = -2(0) + 1 = 1$

$H(4) = -2(4) + 1 = -7$

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14. $H(-3) = 7$ 15. $H(0) = 1$ 16. $H(4) = -7$

17. $L(-3) = -27$ 18. $L(0) =$ _____ 19. $L(4) =$ _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$

$H(4) = -2(4) + 1 = -7$

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$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$

$H(4) = -2(4) + 1 = -7$

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$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 =$

$H(4) = -2(4) + 1 = -7$

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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) = 7
15. H(0) = 1
16. H(4) = -7
17. L(-3) = -27
18. L(0) = 0
19. L(4) = _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 = 0$

$H(4) = -2(4) + 1 = -7$

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14. $H(-3) = 7$ 15. $H(0) = 1$ 16. $H(4) = -7$

17. $L(-3) = -27$ 18. $L(0) = 0$ 19. $L(4) =$ _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 = 0$

$H(4) = -2(4) + 1 = -7$

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17. $L(-3) = -27$ 18. $L(0) = 0$ 19. $L(4) =$ _____

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 = 0$

$H(4) = -2(4) + 1 = -7$ $L(4) = (4)^3 =$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

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

14. $H(-3) = 7$ 15. $H(0) = 1$ 16. $H(4) = -7$

17. $L(-3) = -27$ 18. $L(0) = 0$ 19. $L(4) = 64$

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 = 0$

$H(4) = -2(4) + 1 = -7$ $L(4) = (4)^3 = 64$

Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

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

14. $H(-3) = 7$ 15. $H(0) = 1$ 16. $H(4) = -7$

17. $L(-3) = -27$ 18. $L(0) = 0$ 19. $L(4) = 64$

$H(x) = -2x + 1$ $L(x) = x^3$

$H(-3) = -2(-3) + 1 = 7$ $L(-3) = (-3)^3 = -27$

$H(0) = -2(0) + 1 = 1$ $L(0) = (0)^3 = 0$

$H(4) = -2(4) + 1 = -7$ $L(4) = (4)^3 = 64$

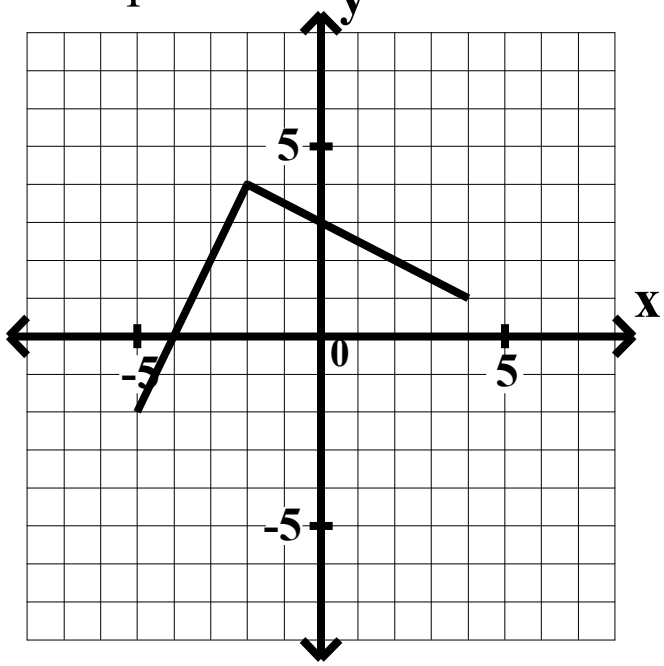
Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

Given the function P defined by this graph.

Graph of P



20. What is the domain of P? _____

21. What is the range of P? _____

Evaluate each of the following.

22. P(-3) = _____

23. P(0) = _____

24. P(4) = _____

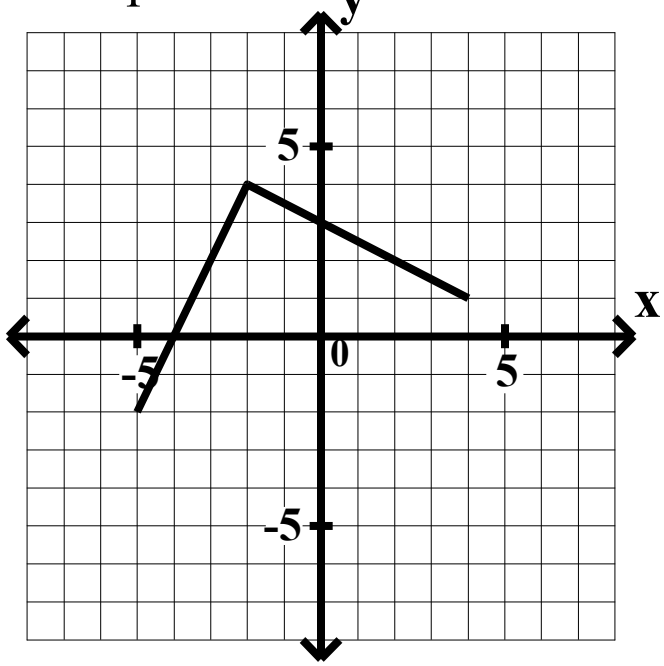
Algebra II Unit 3 Class Worksheet #2 Functions

Relation: A relation is a set of ordered pairs.

Function: A function is a relation in which each value of x is paired with exactly one value of y.

Given the function P defined by this graph.

Graph of P



20. What is the domain of P? _____

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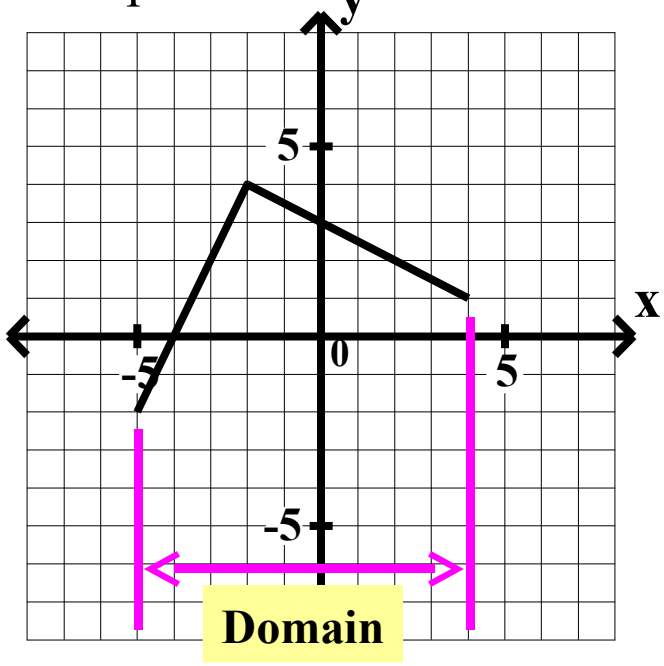

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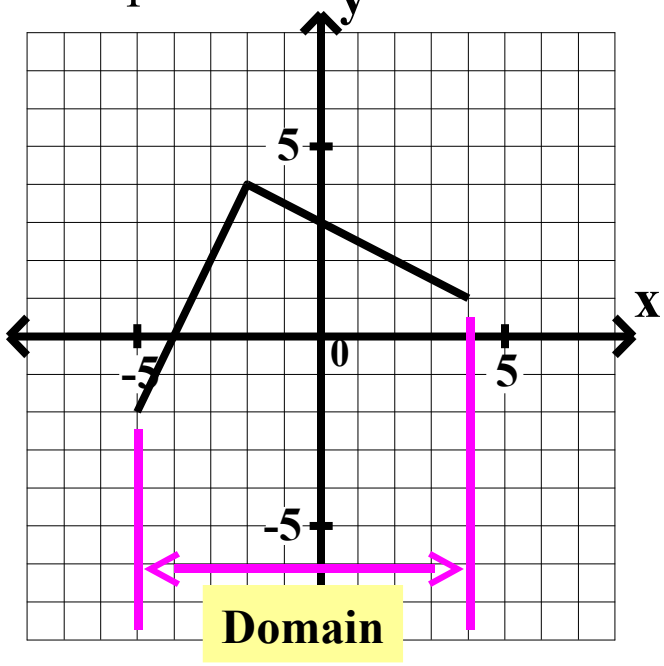

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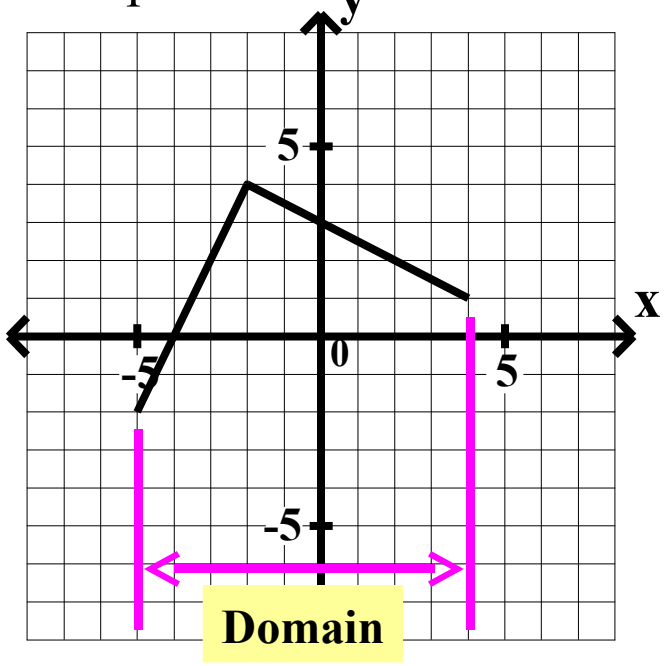

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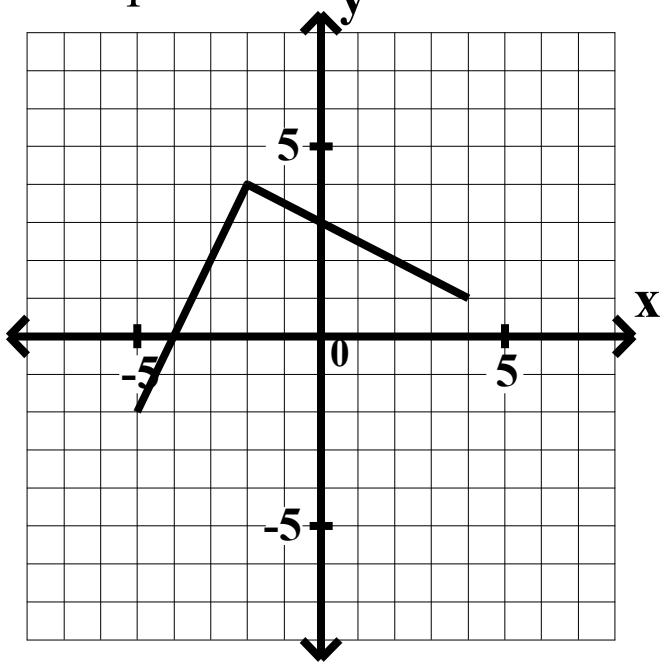

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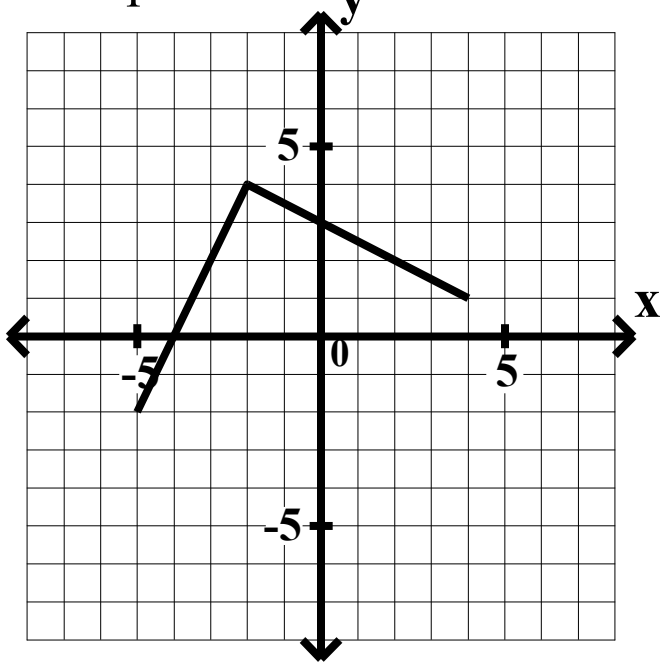

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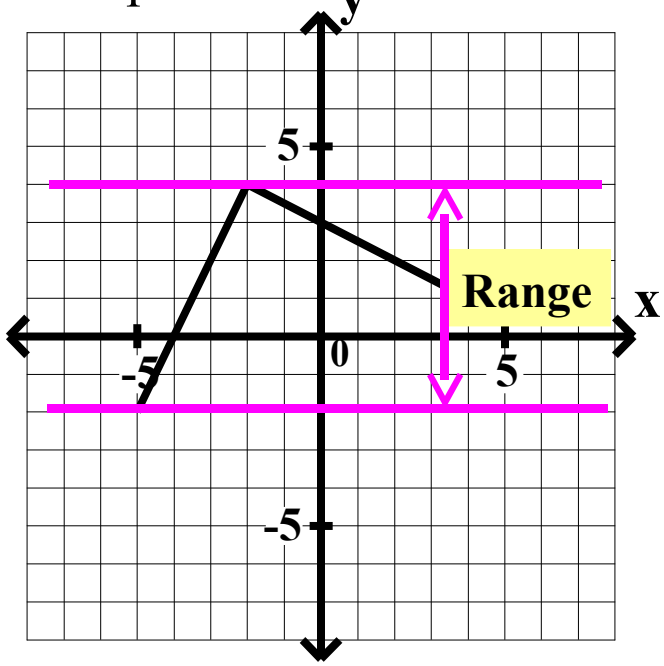

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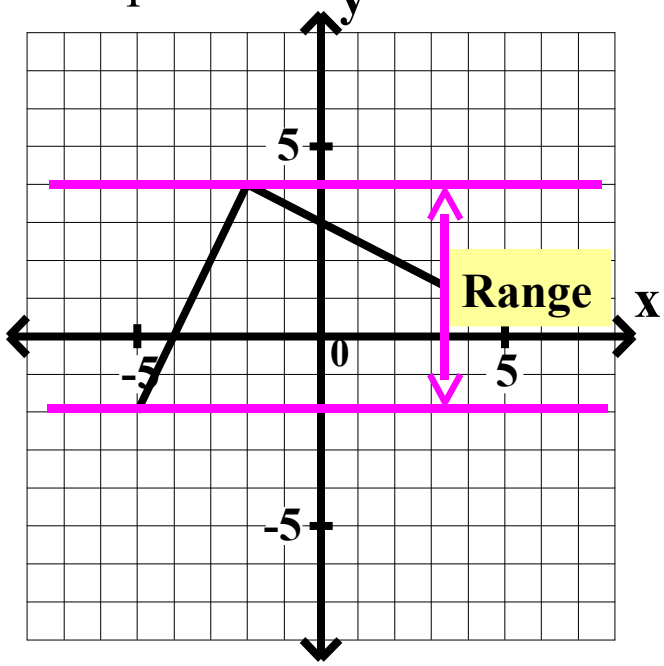

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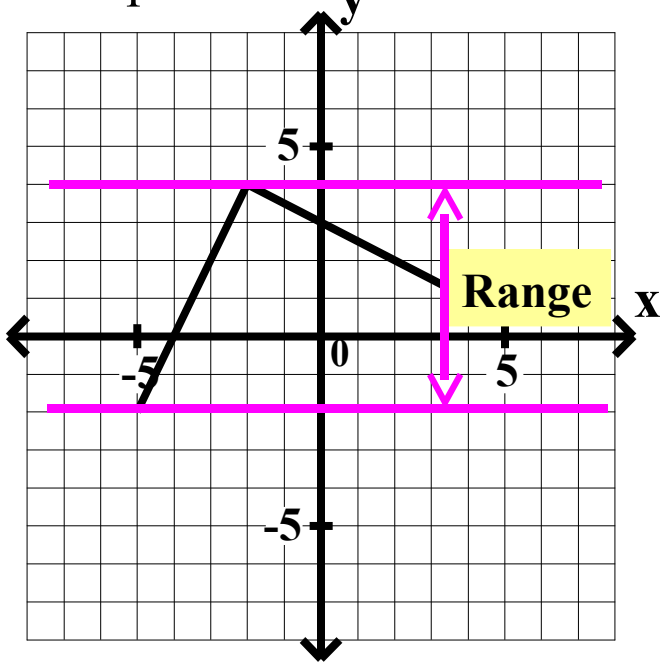

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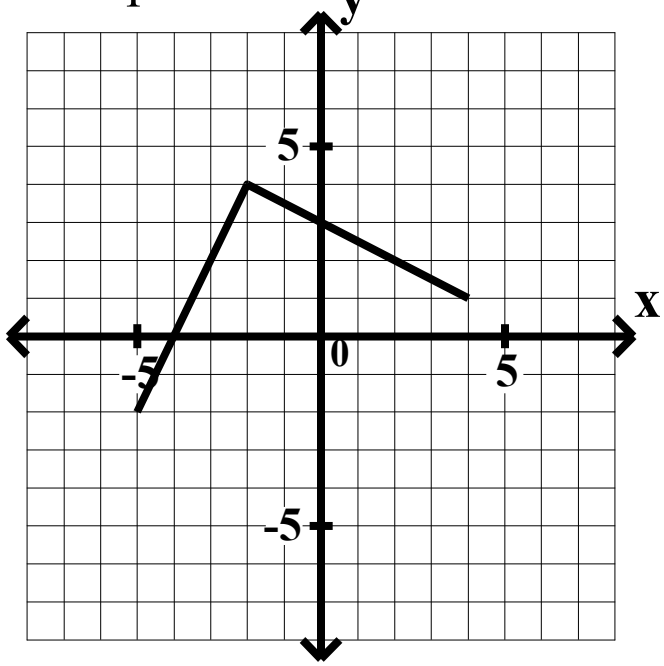

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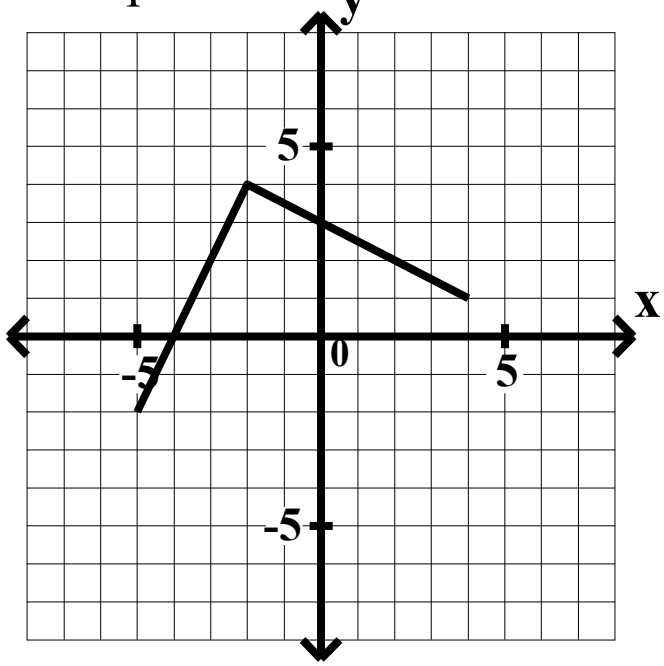

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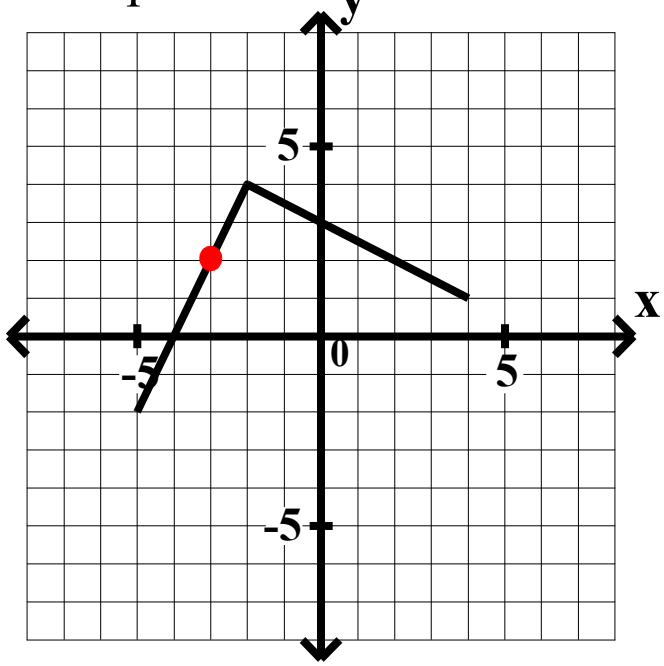

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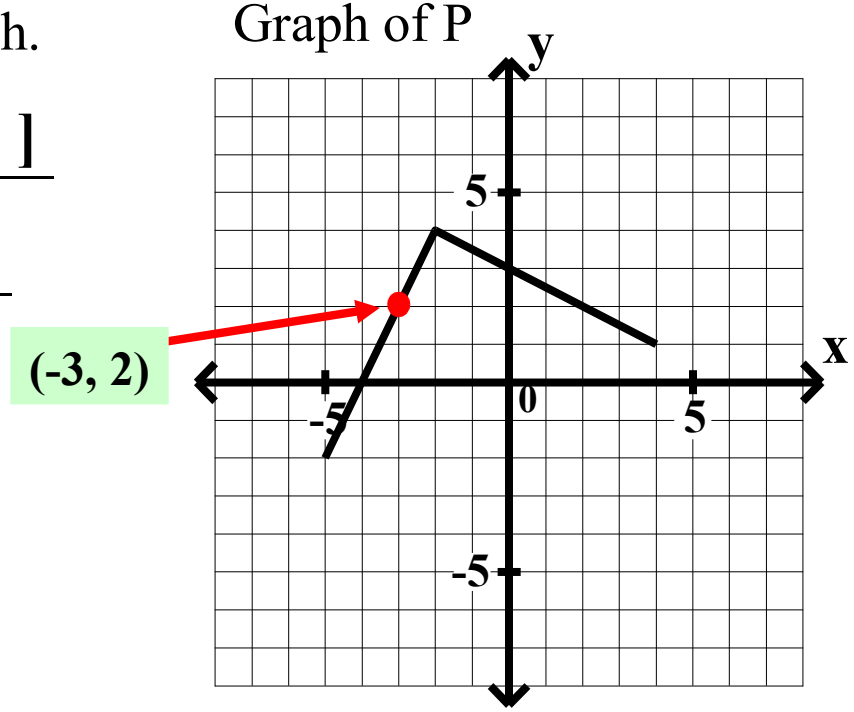

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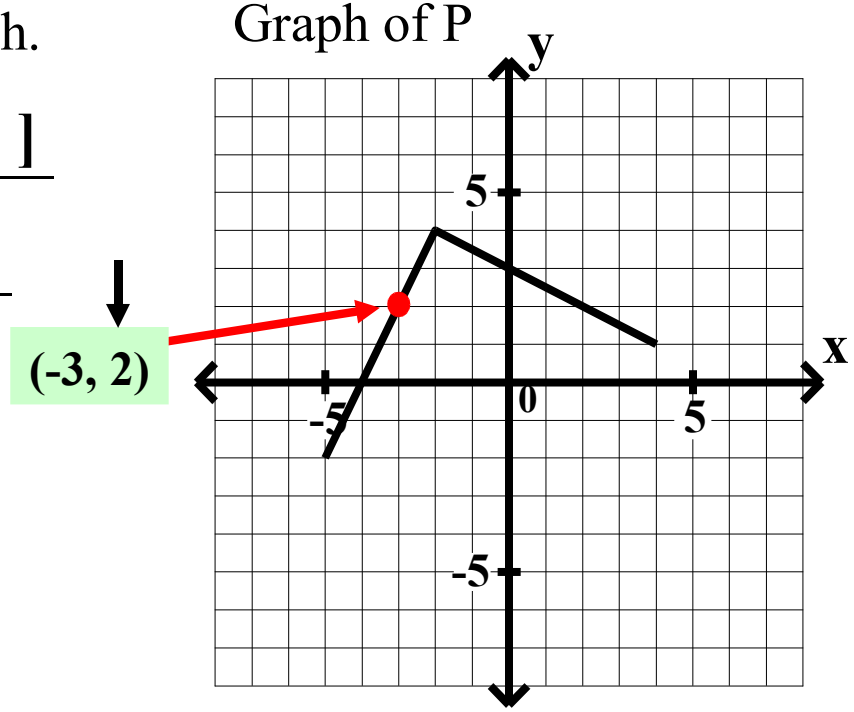

20. What is the domain of P? **[-5 , 4]**

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Evaluate each of the following.

22. P(-3) = **2**

23. P(0) = _____

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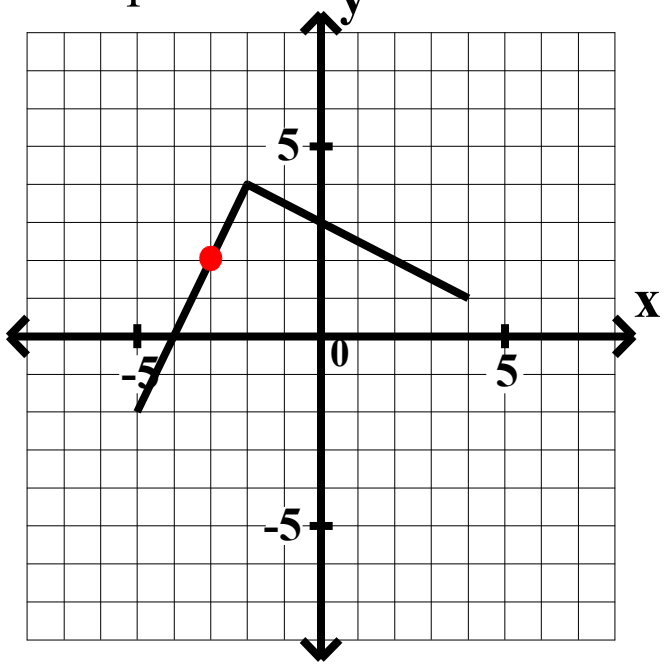

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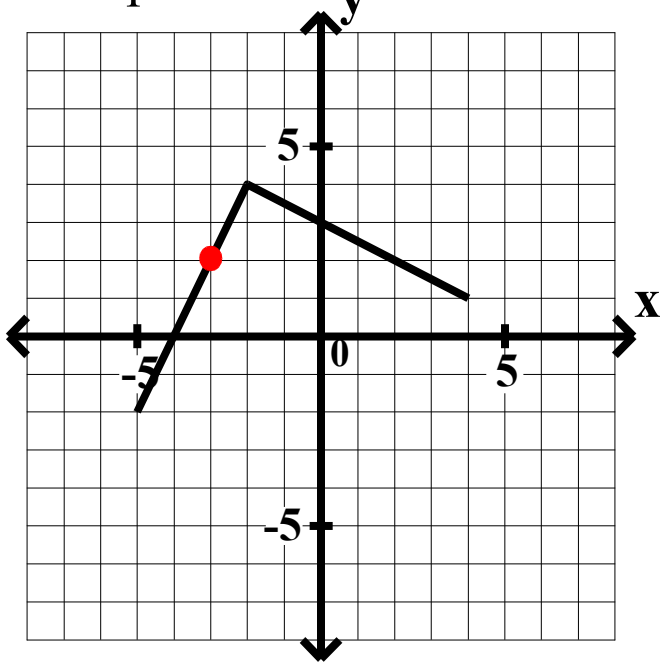

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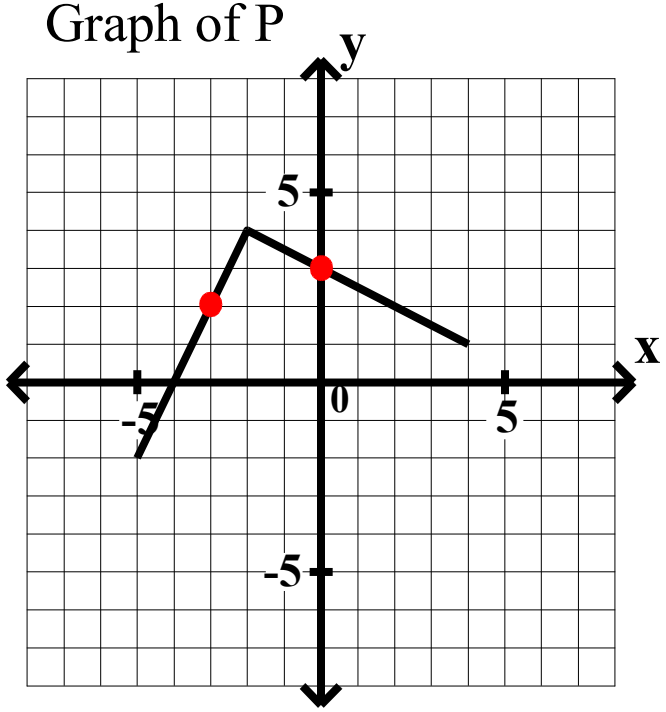

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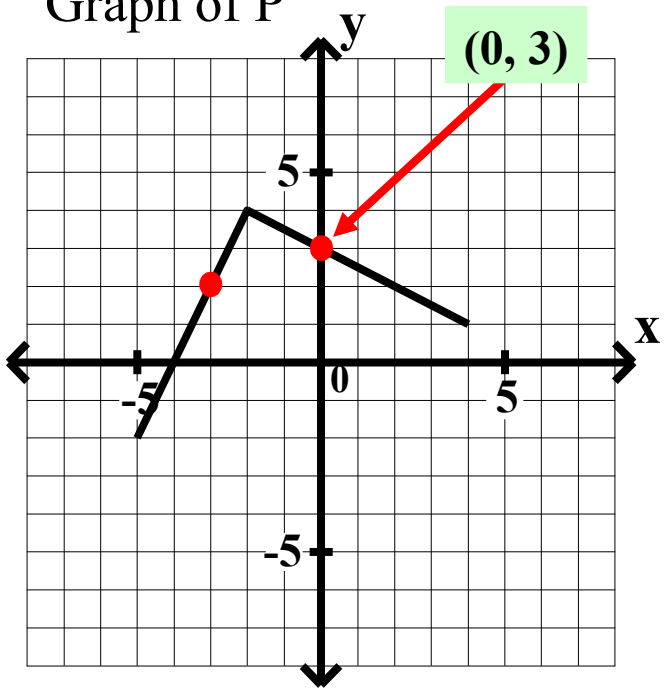

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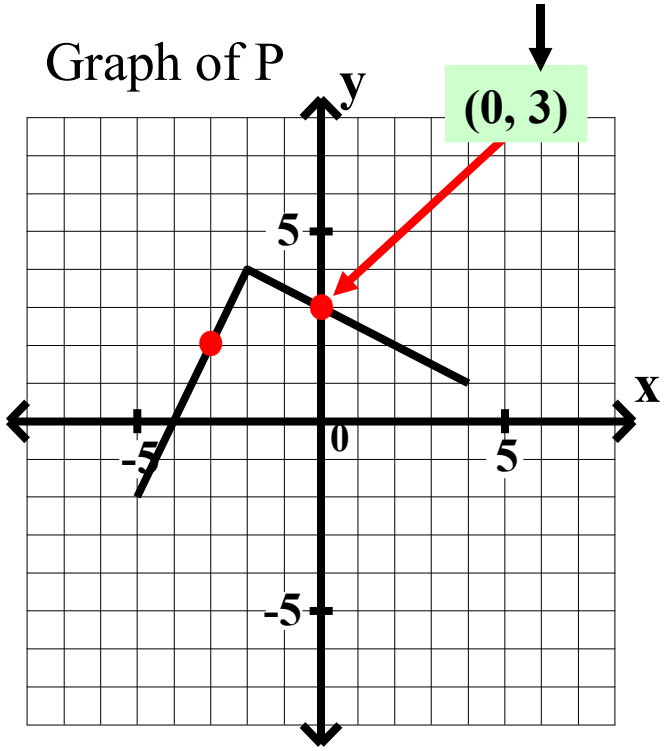

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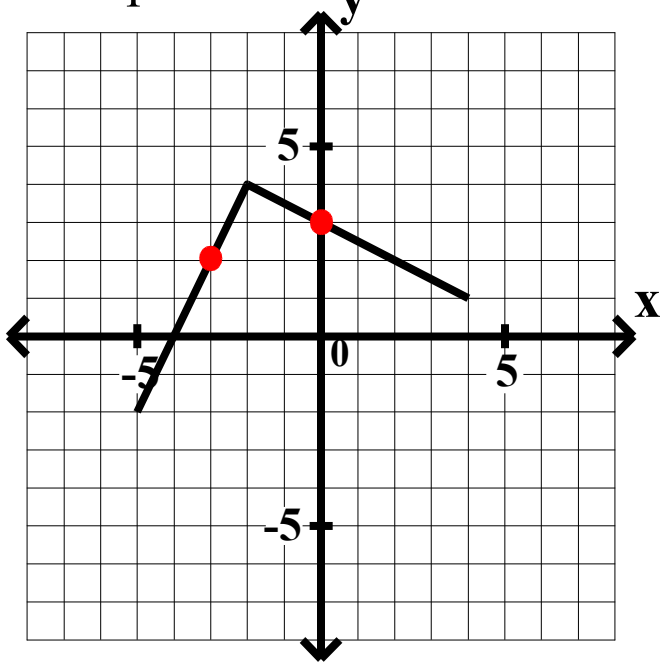

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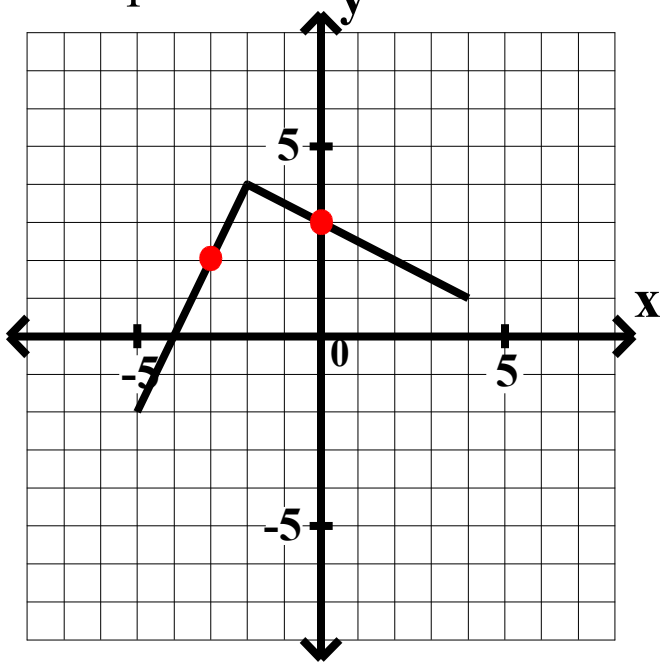

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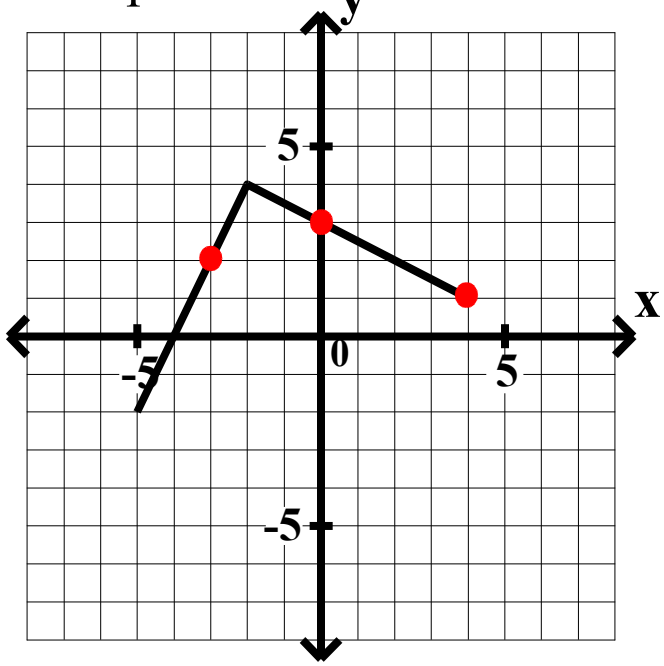

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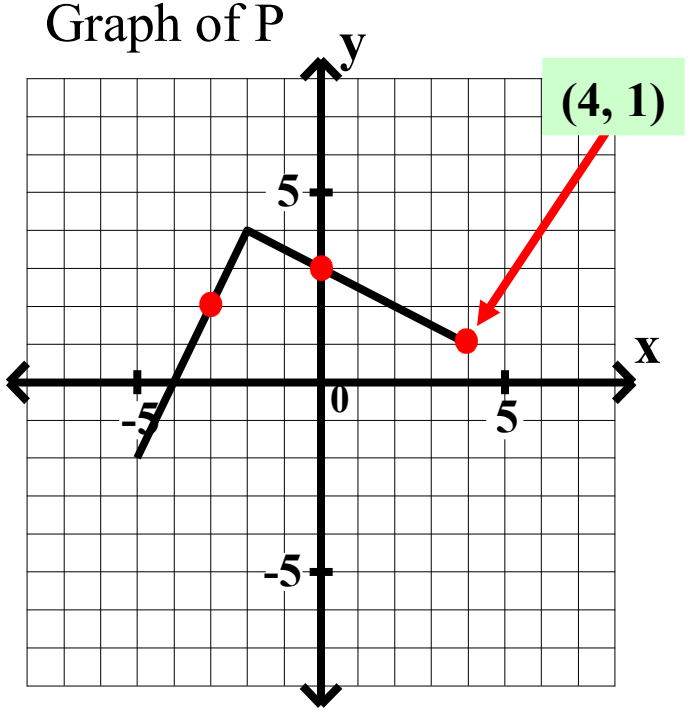

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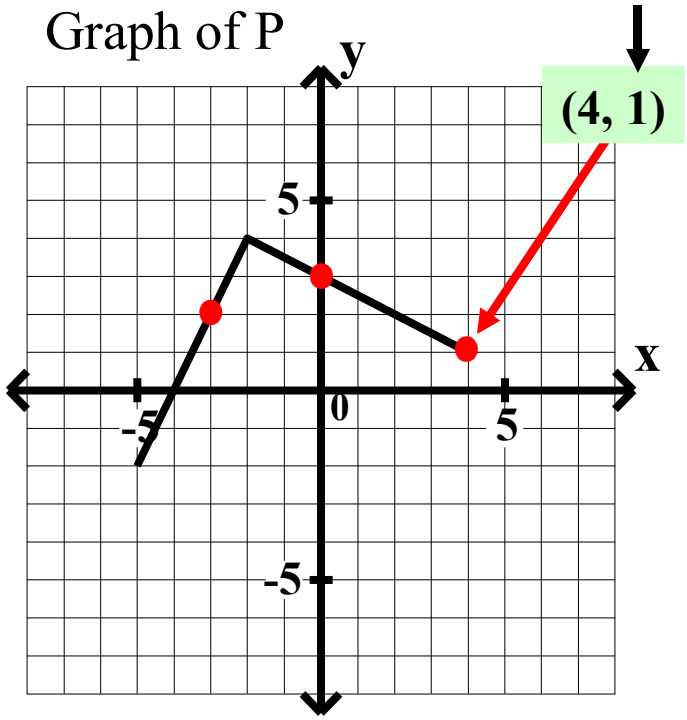

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23. P(0) = **3**

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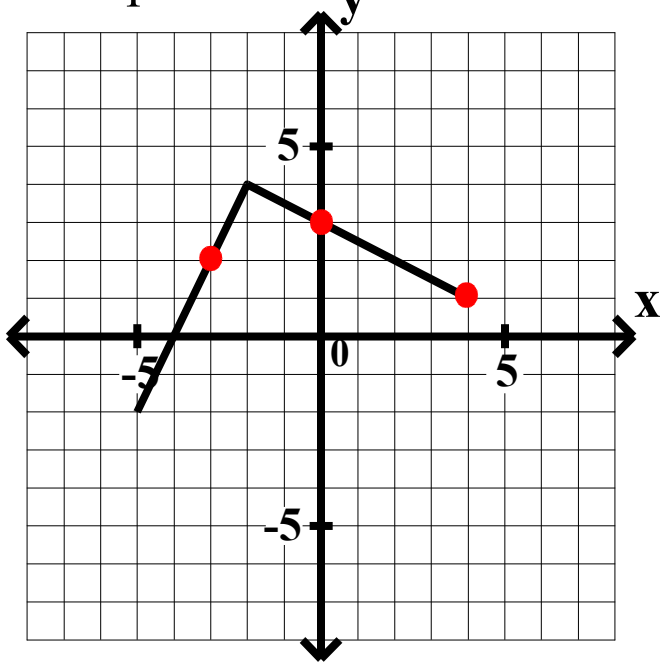

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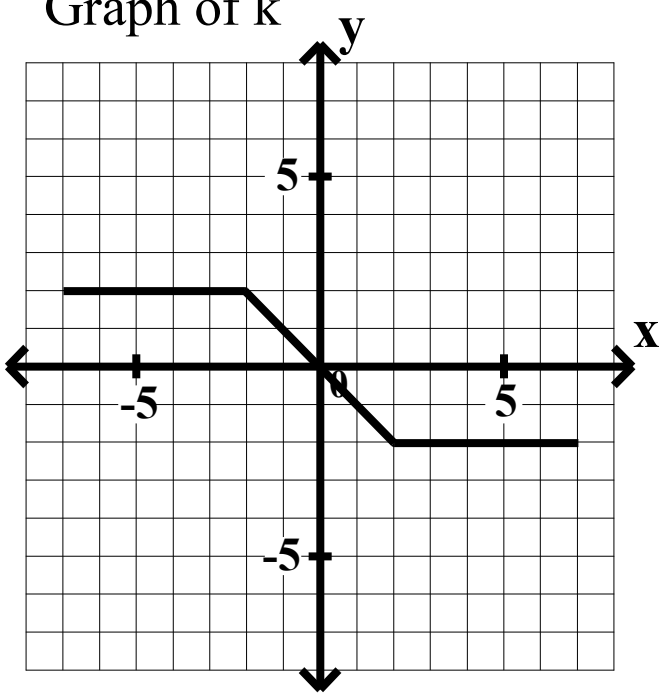
Given the function k defined by this graph.

Graph of k



25. What is the domain of k? _____

26. What is the range of k? _____

Evaluate each of the following.

27. k(-3) = _____

28. k(0) = _____

29. k(4) = _____

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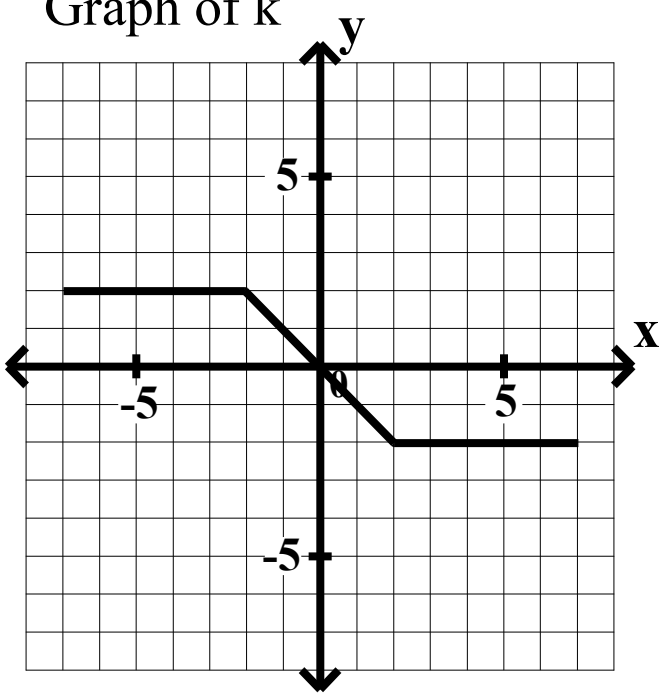

25. What is the domain of k? _____

26. What is the range of k? _____

Evaluate each of the following.

27. k(-3) = _____

28. k(0) = _____

29. k(4) = _____

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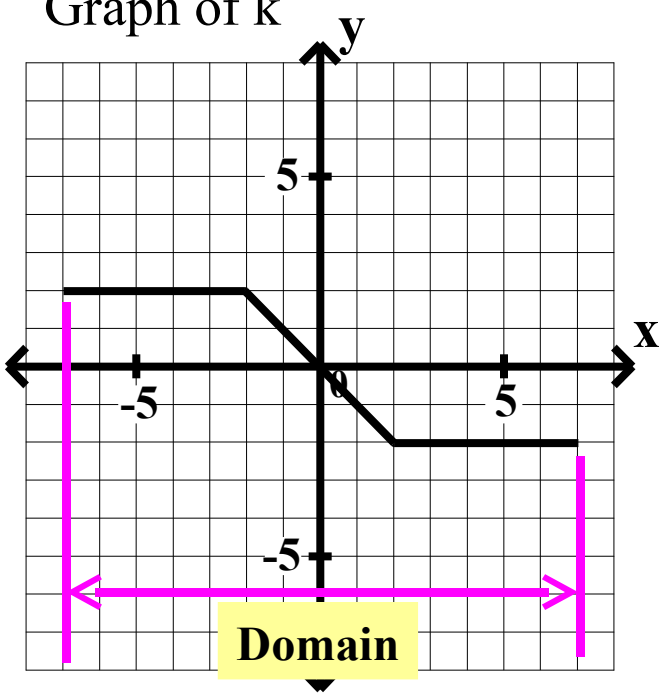

25. What is the domain of k? _____

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Relation: A relation is a set of ordered pairs.

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Given the function k defined by this graph.

25. What is the domain of k? [-7 , ___

26. What is the range of k? _____

Evaluate each of the following.

27. k(-3) = _____

28. k(0) = _____

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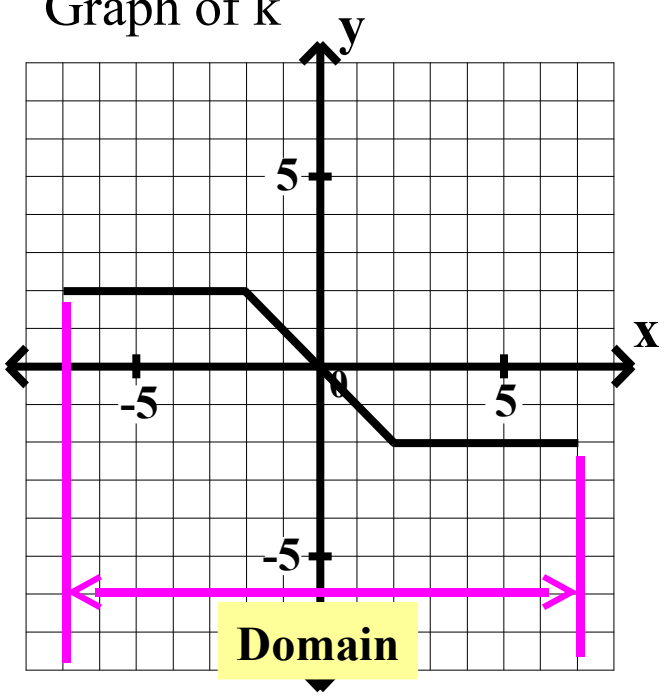
Graph of k



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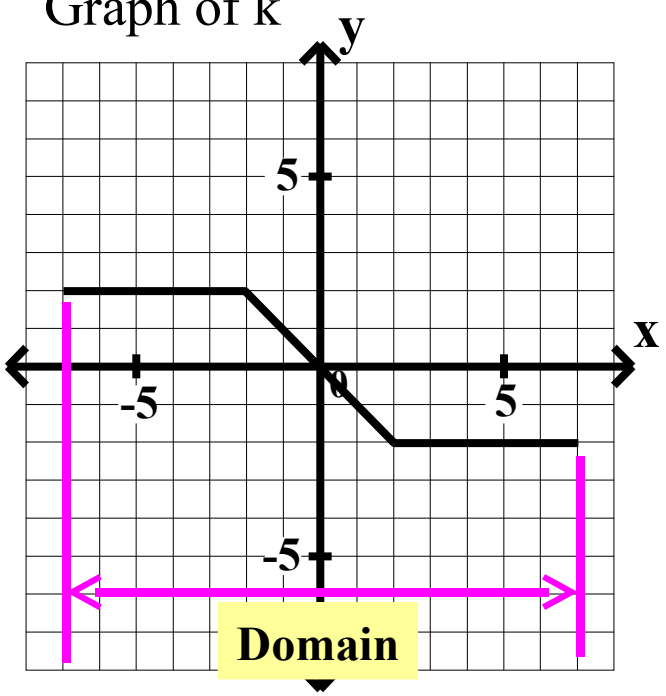

25. What is the domain of k? [-7 , 7]

26. What is the range of k? _____

Evaluate each of the following.

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28. k(0) = _____

29. k(4) = _____

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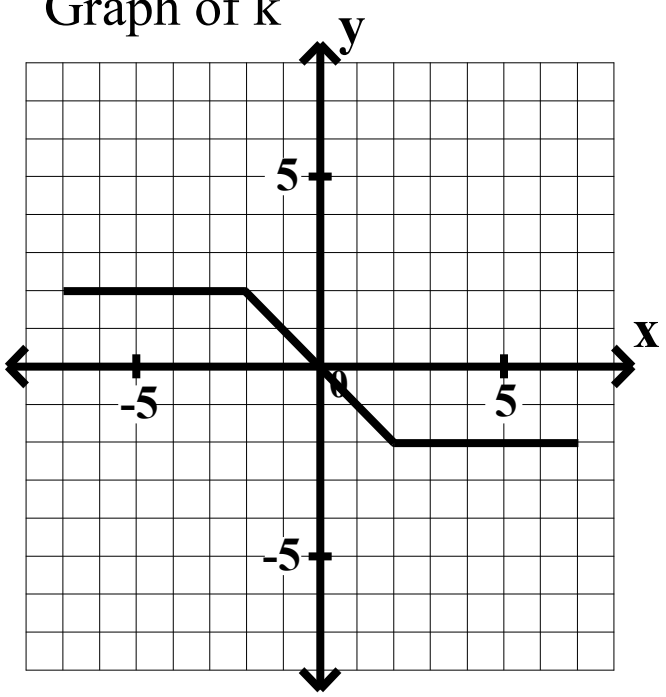
Graph of k



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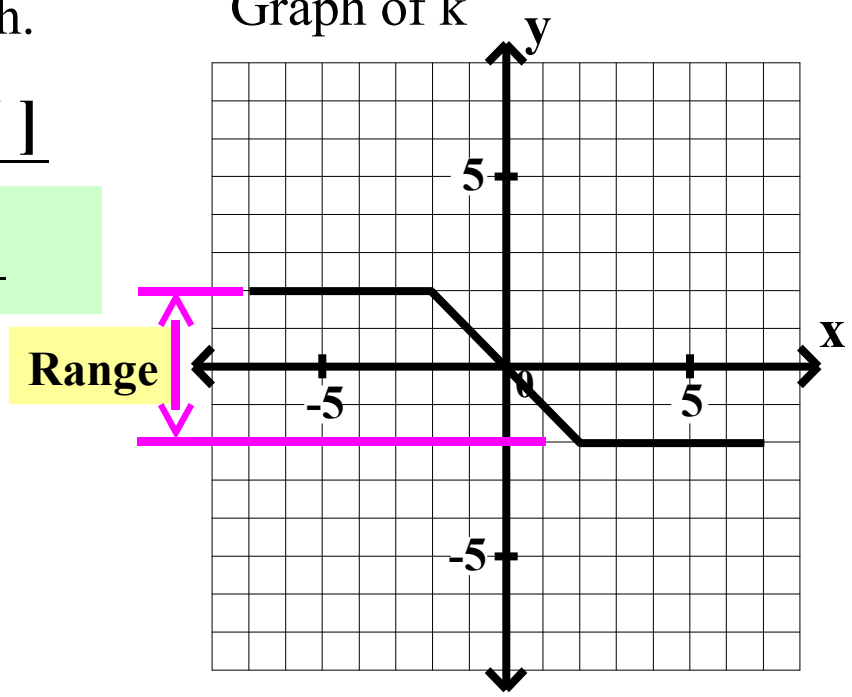

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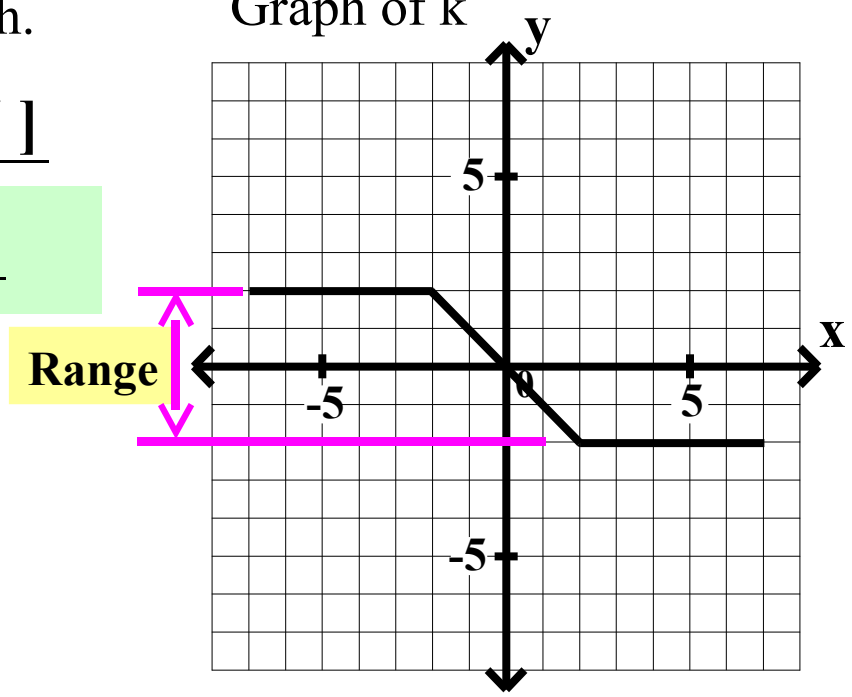

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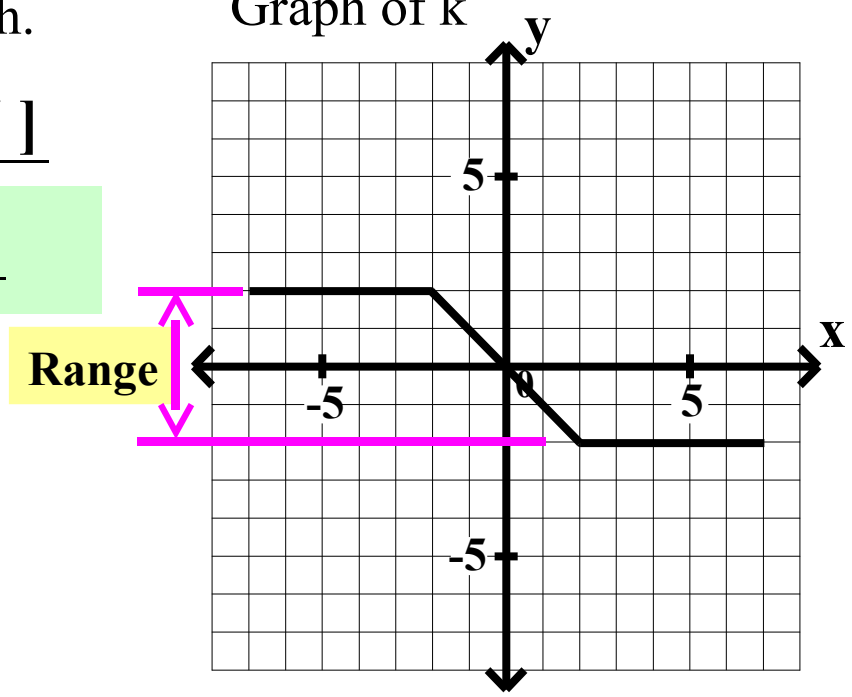

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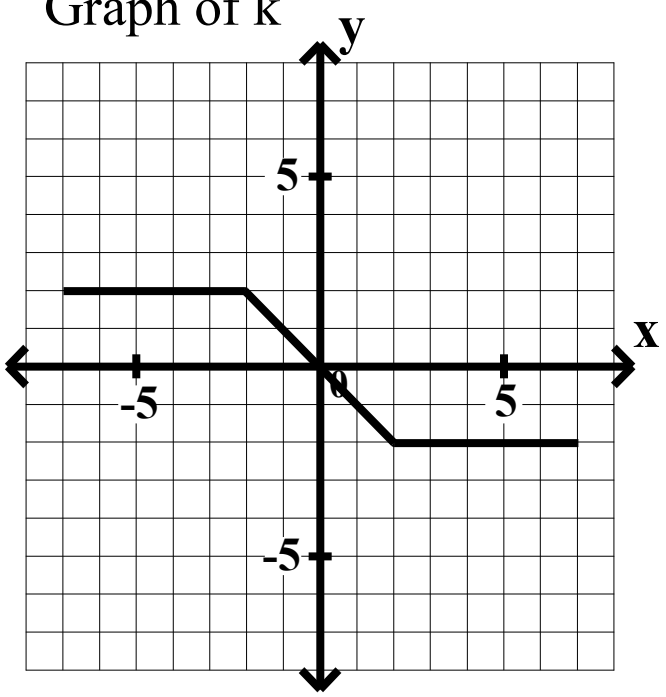

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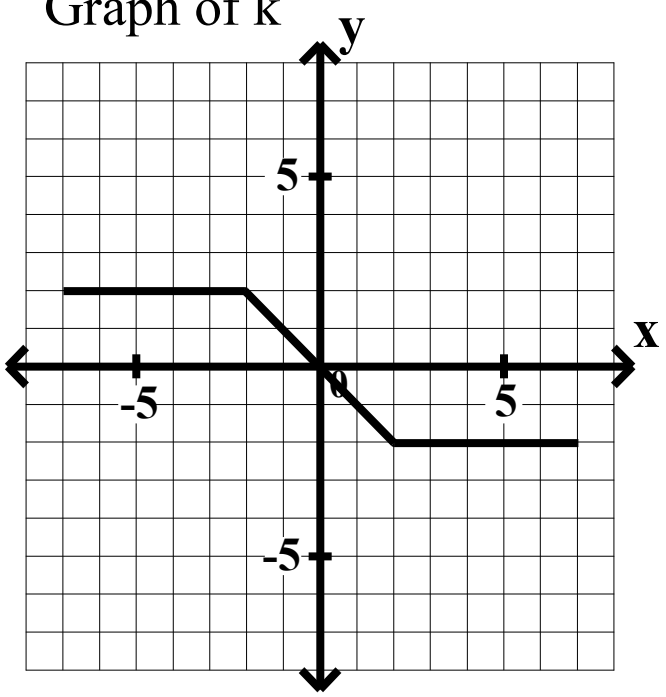

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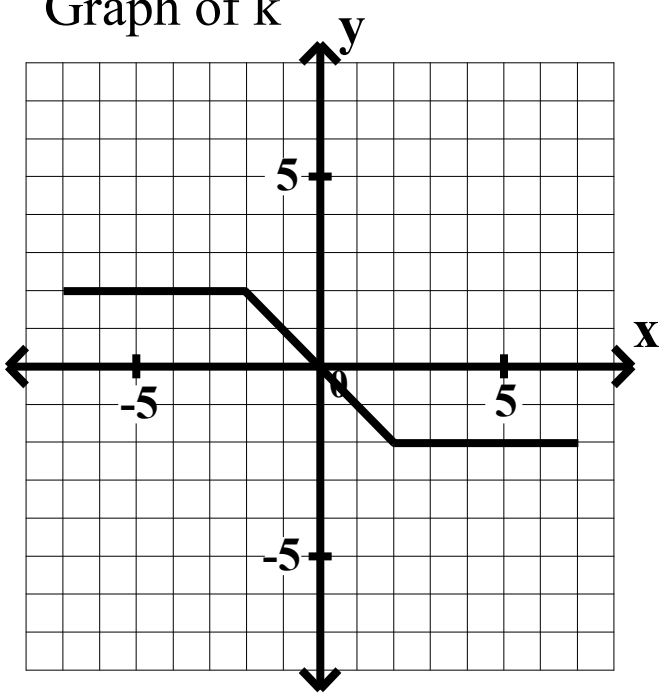

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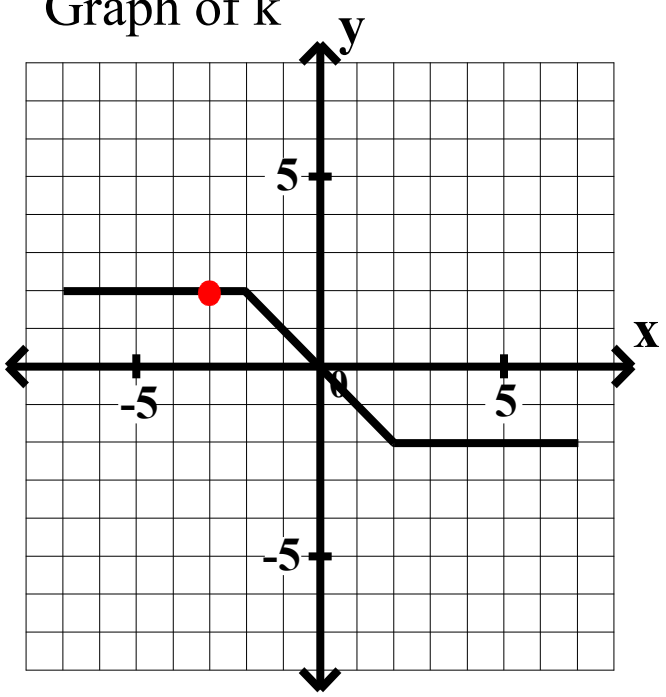

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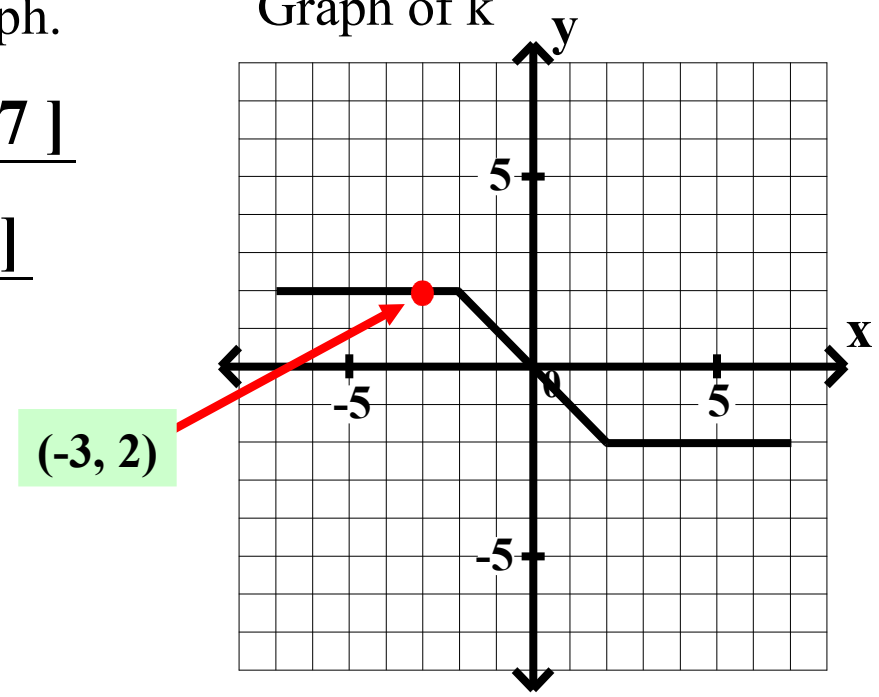

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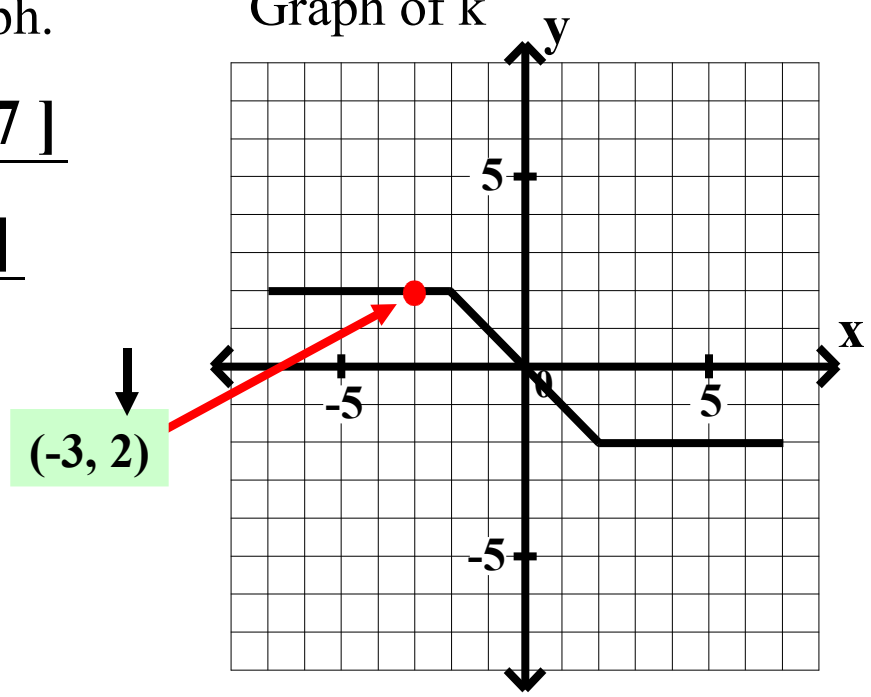

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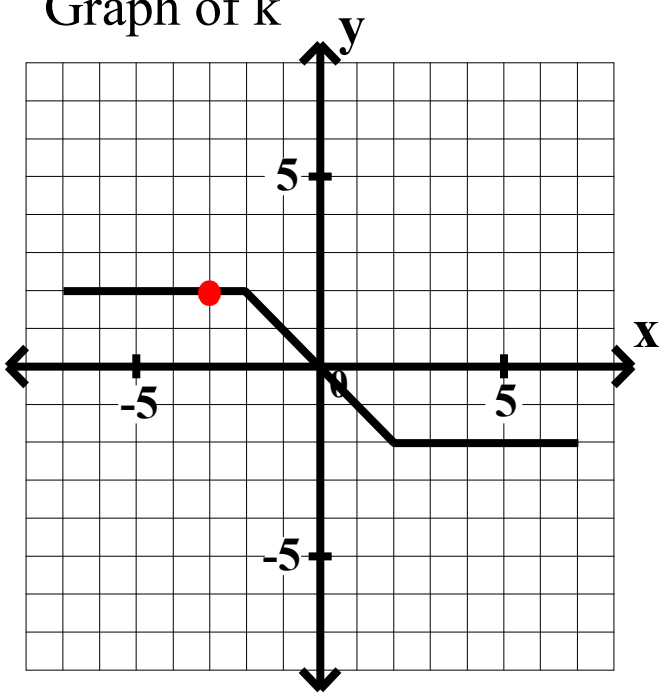

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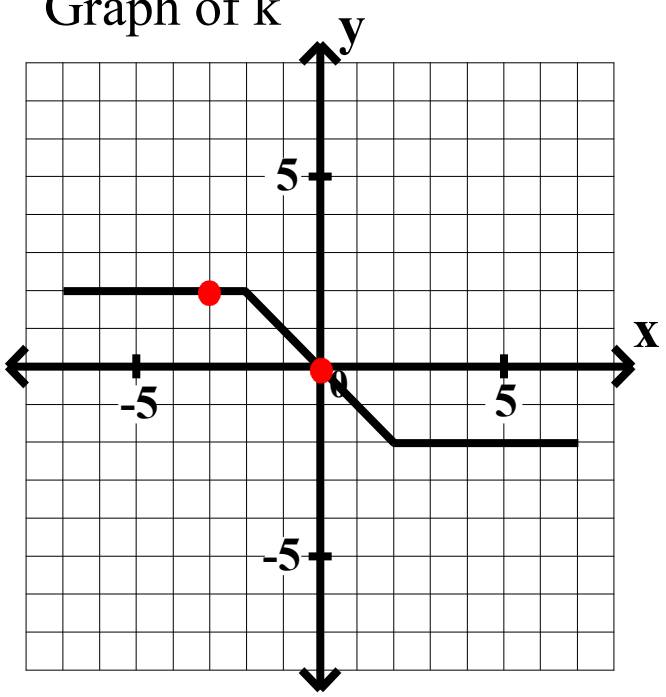

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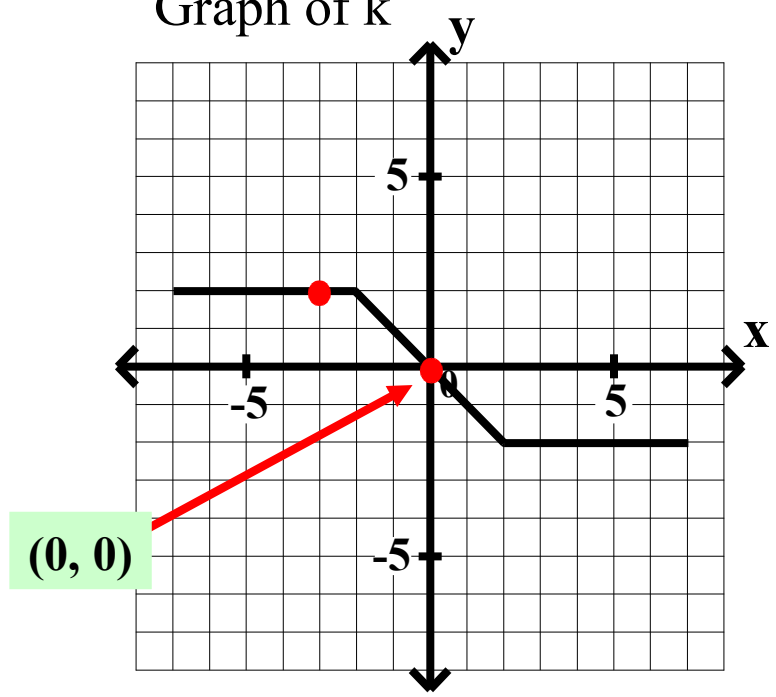

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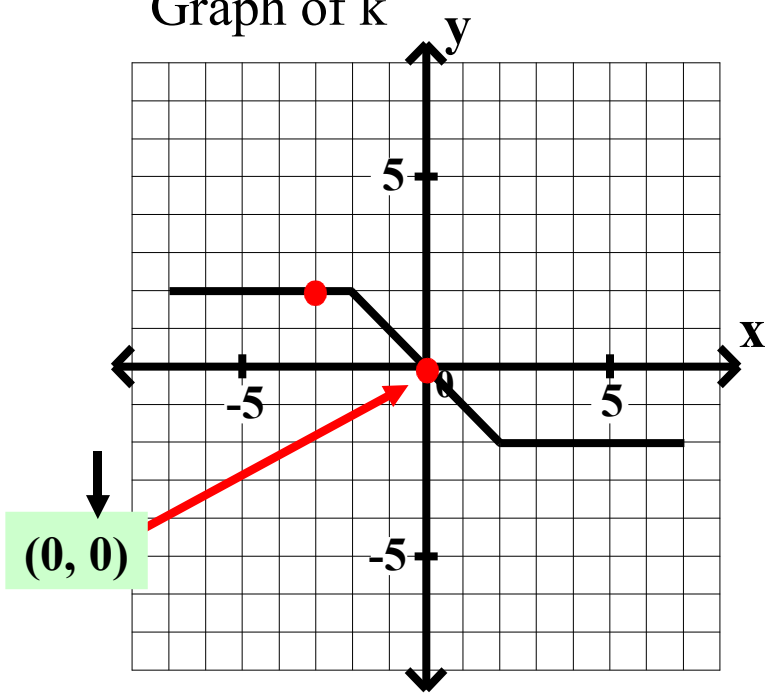

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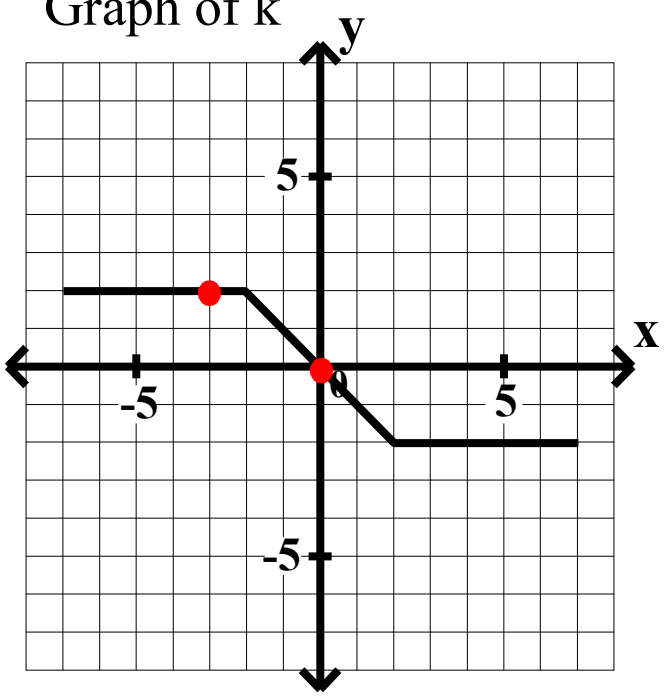

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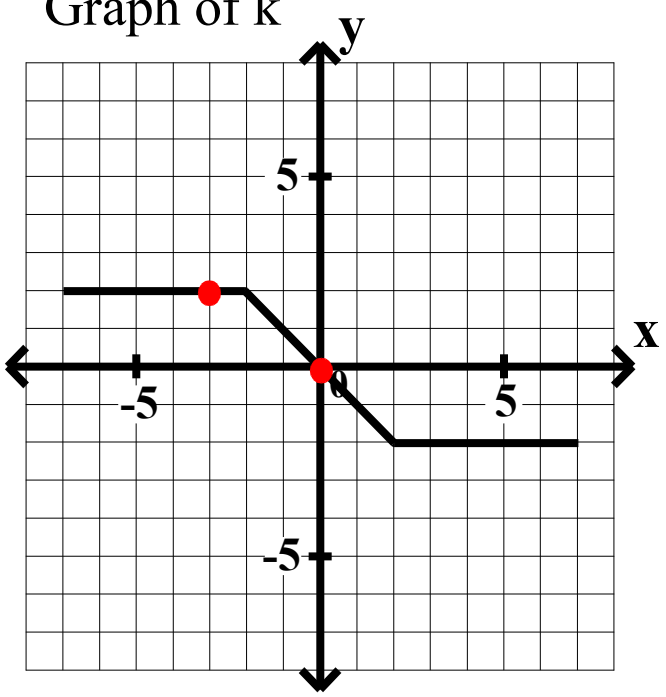

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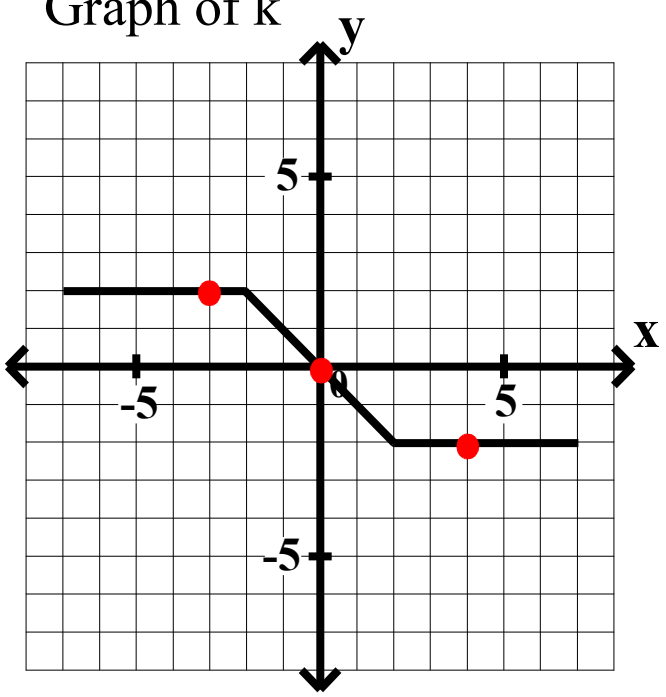

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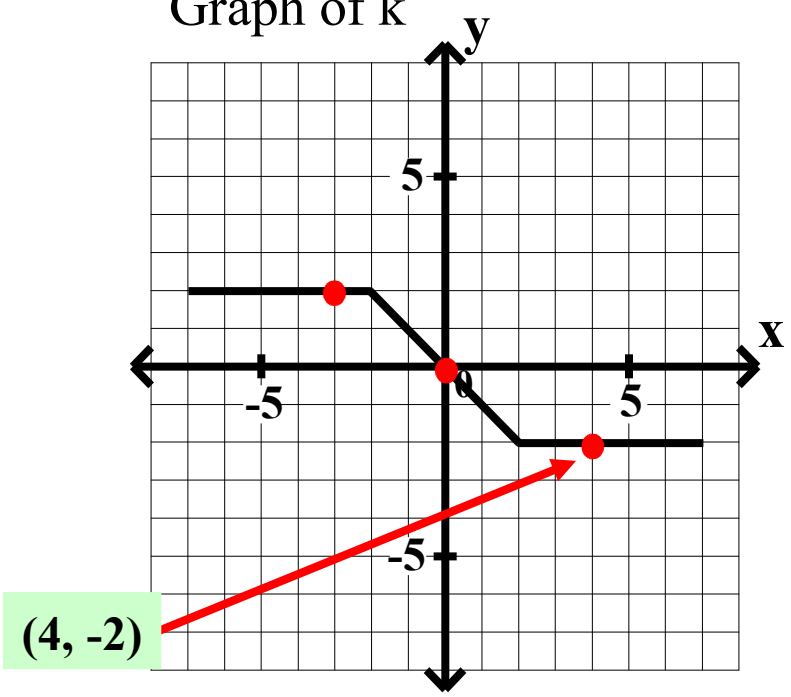

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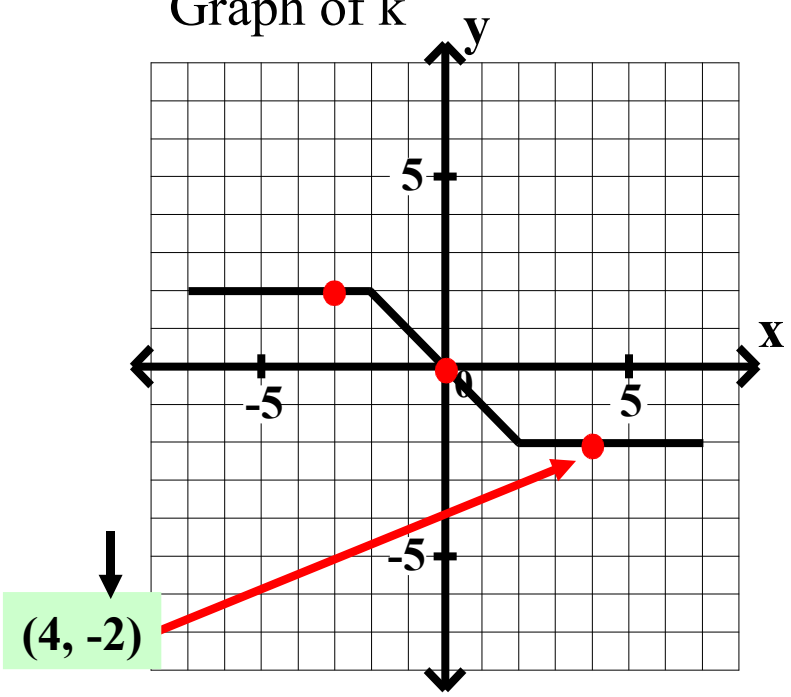

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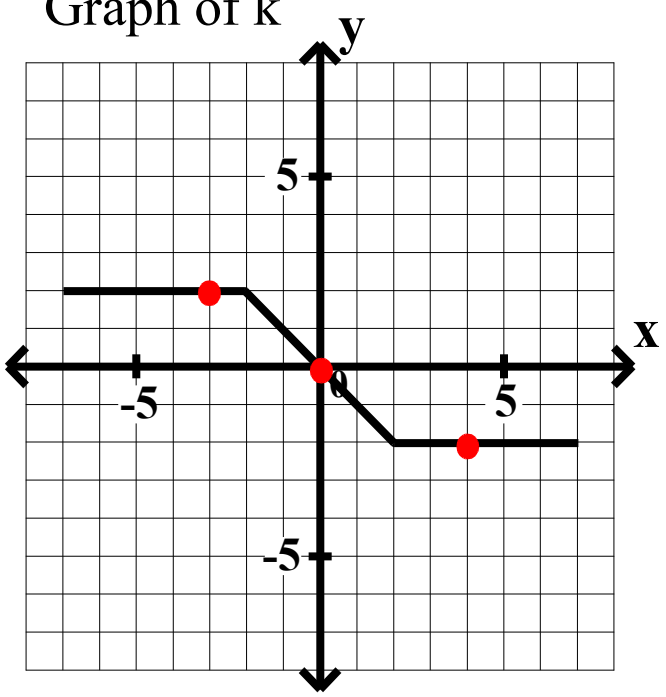

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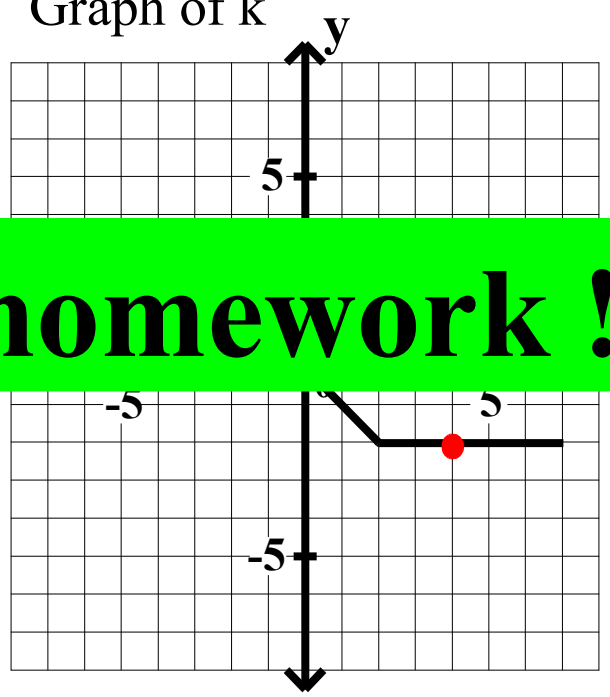

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