# Algebra I  Lesson #2  Unit 8
# Class Worksheet #2
# For Worksheets #3&4

# Algebra I  Unit 8  Class Worksheet #2  Functions

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**Relation:**

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**Function: A function is a relation**

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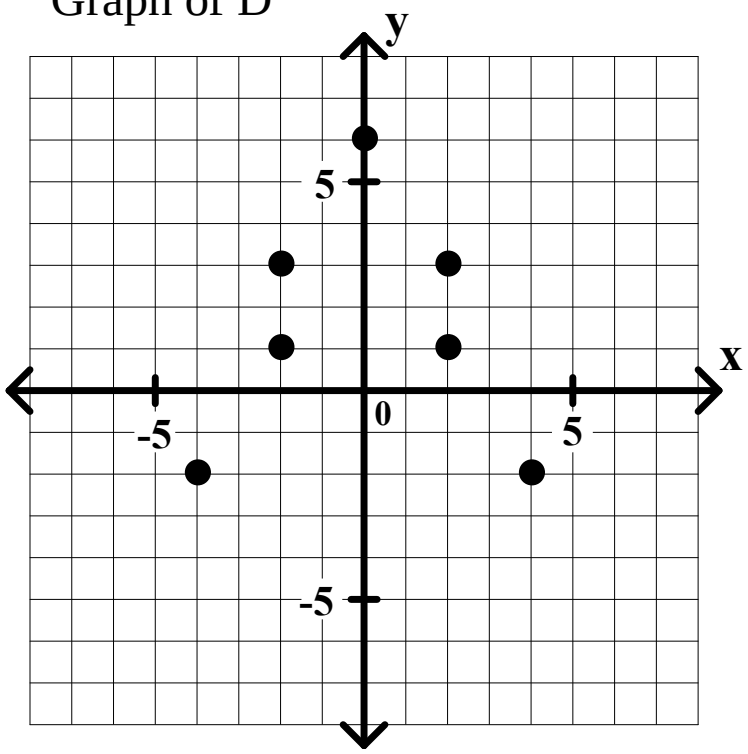
Graph of D

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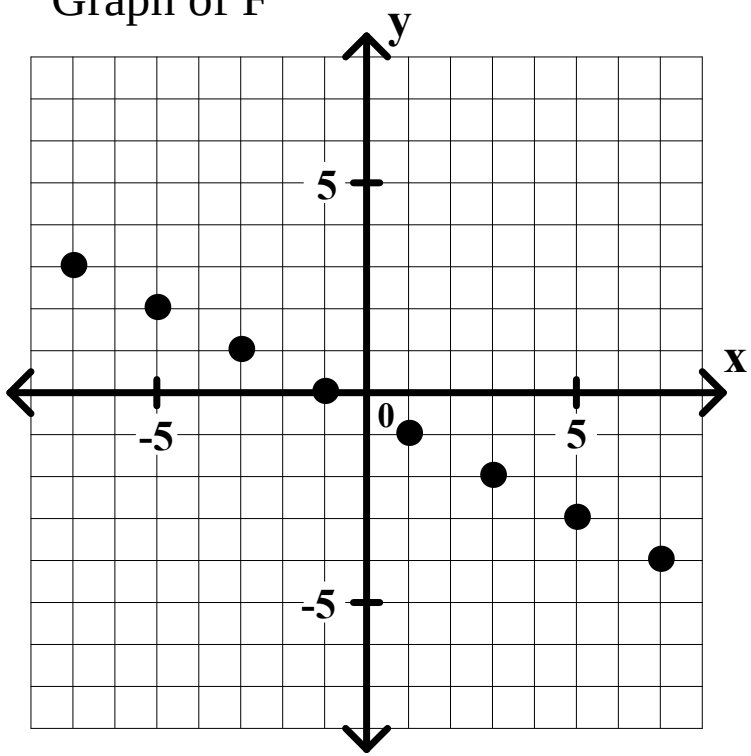

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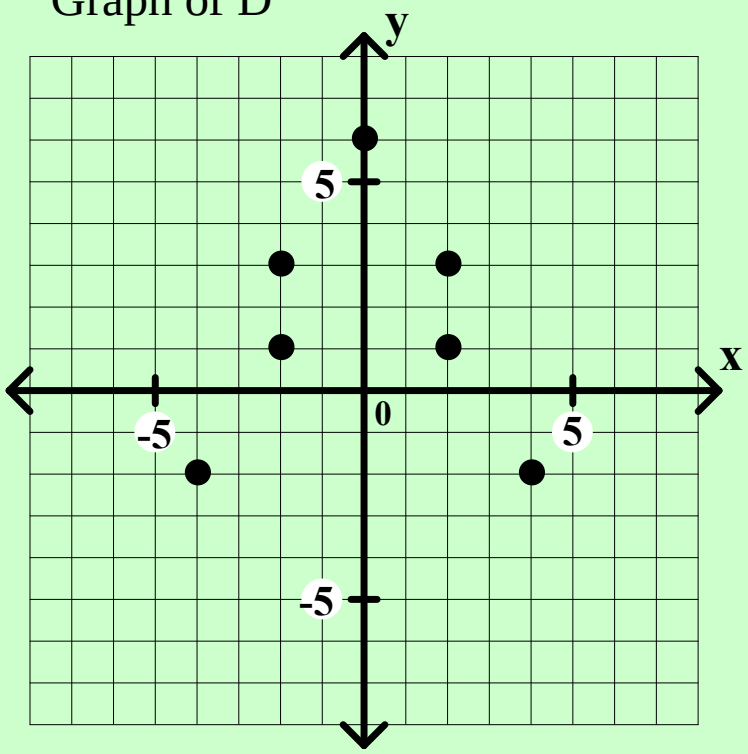


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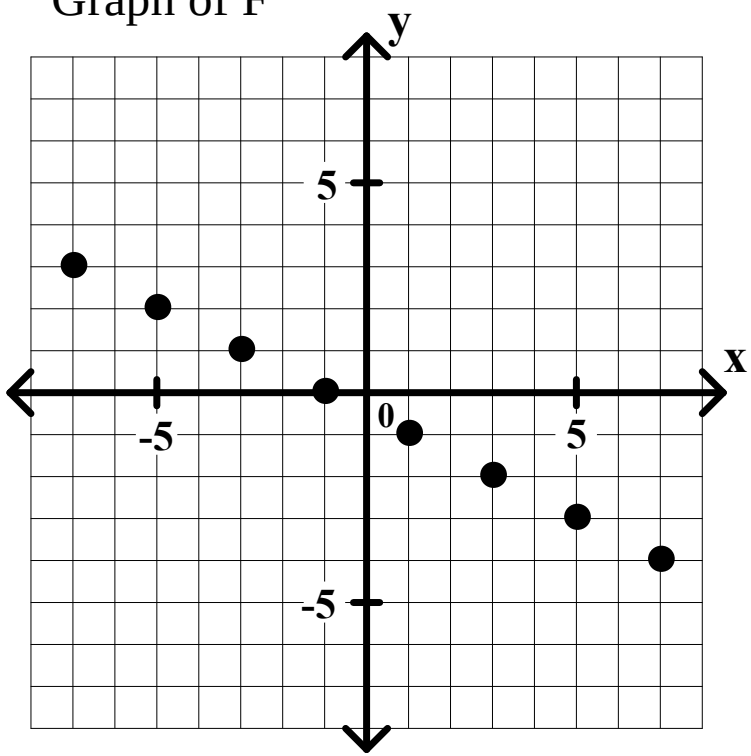

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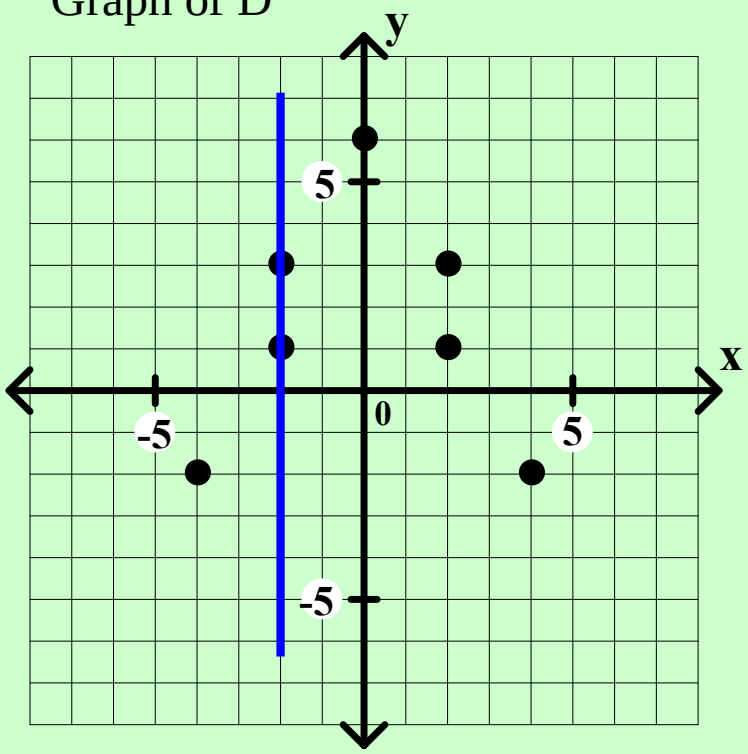


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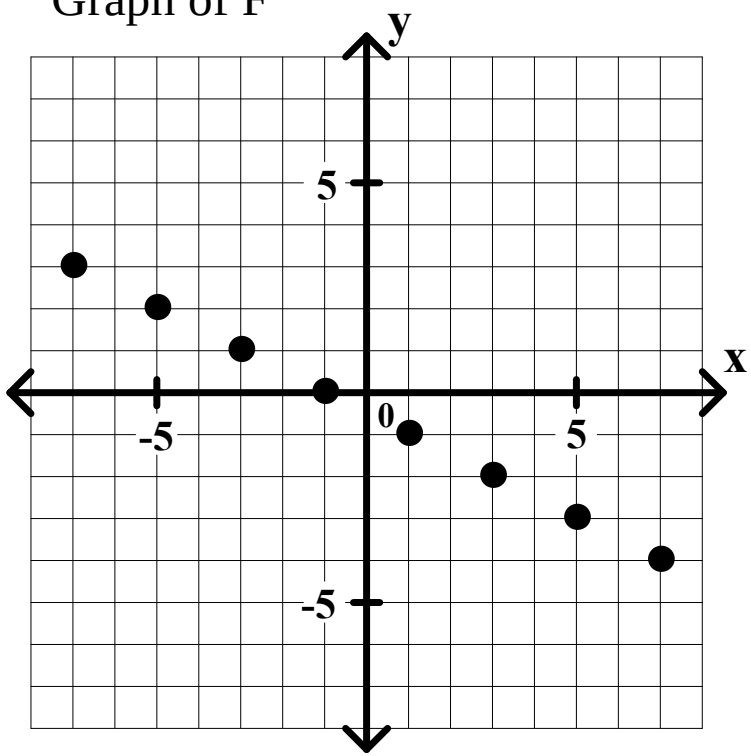

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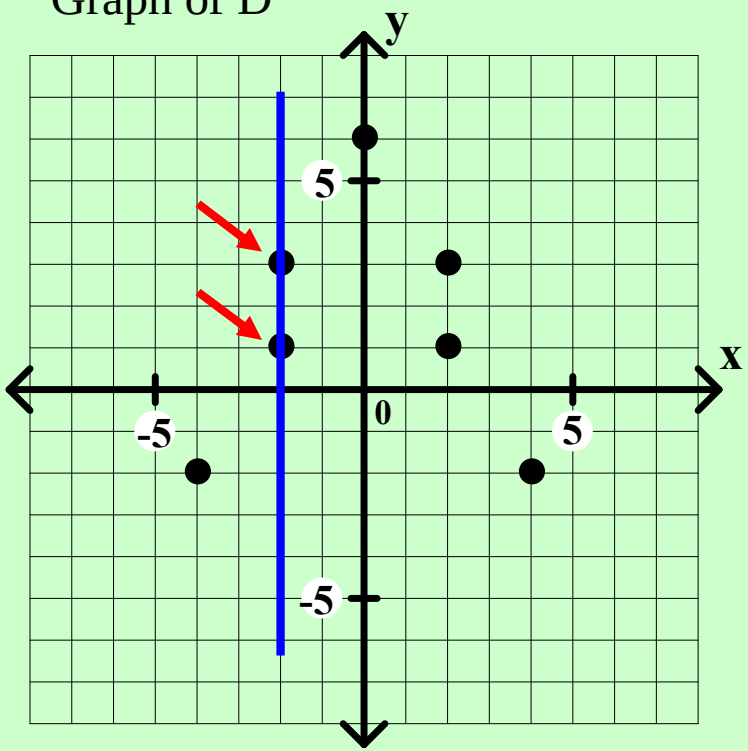


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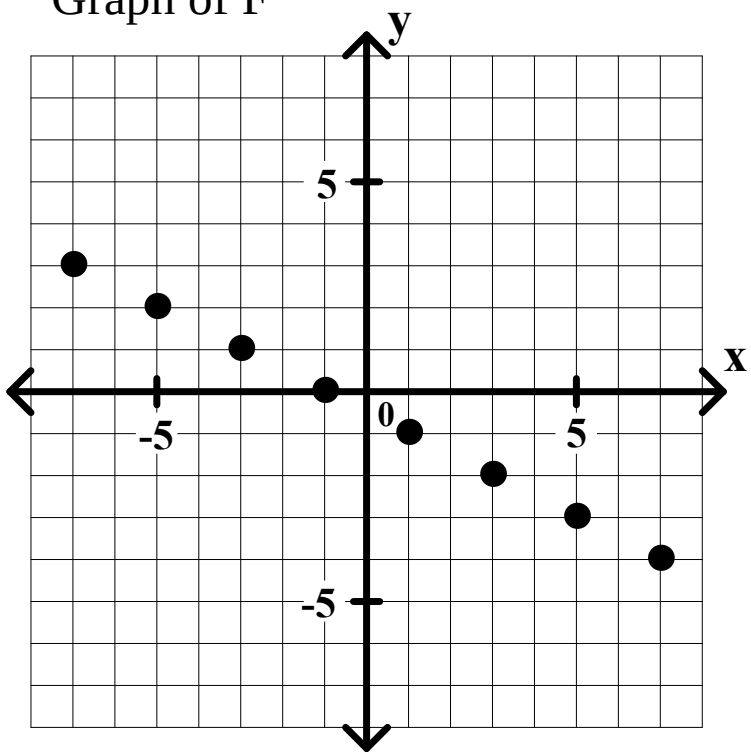

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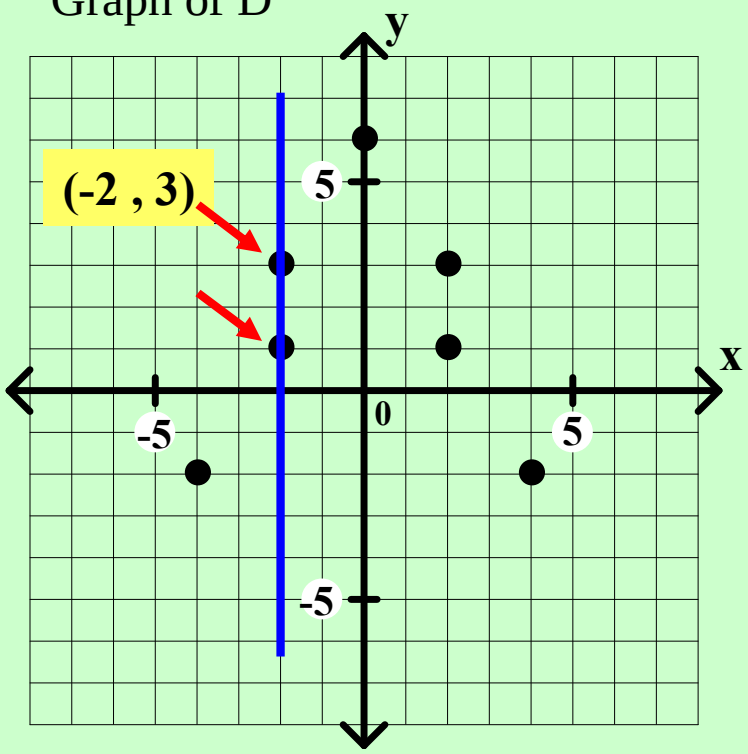


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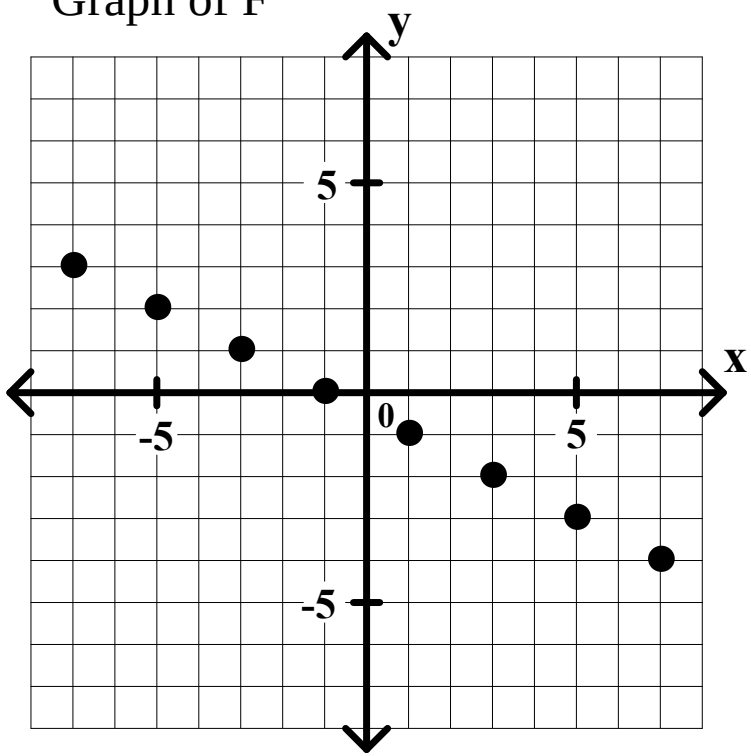

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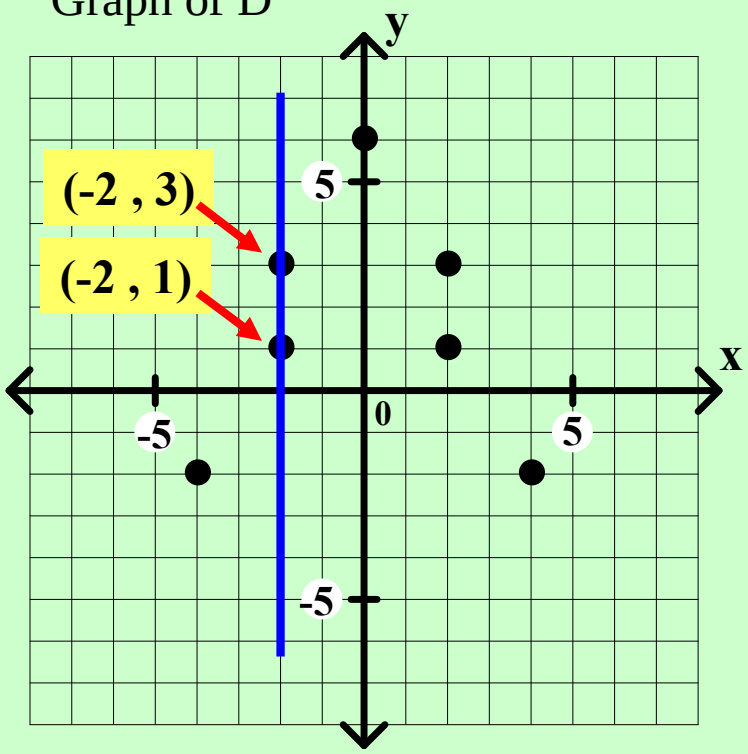


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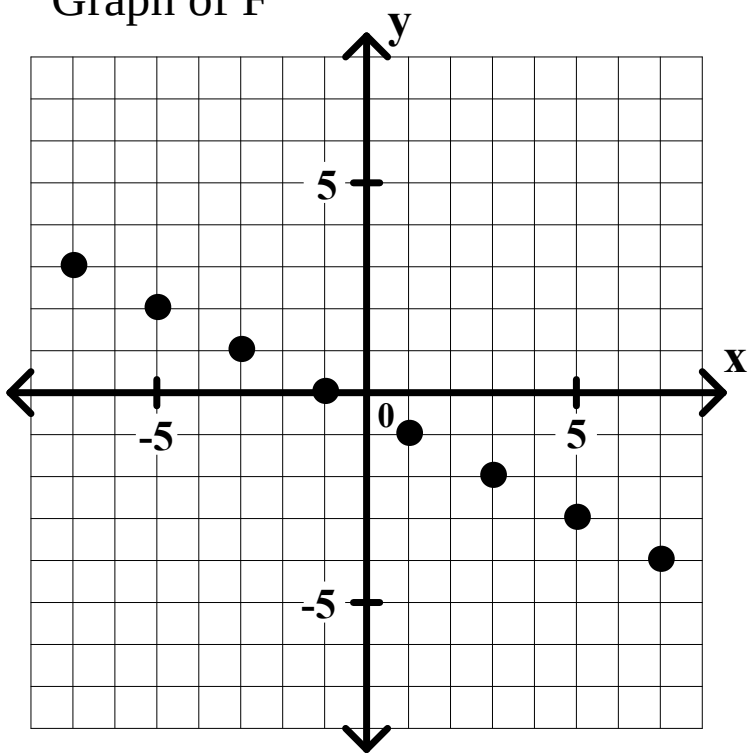

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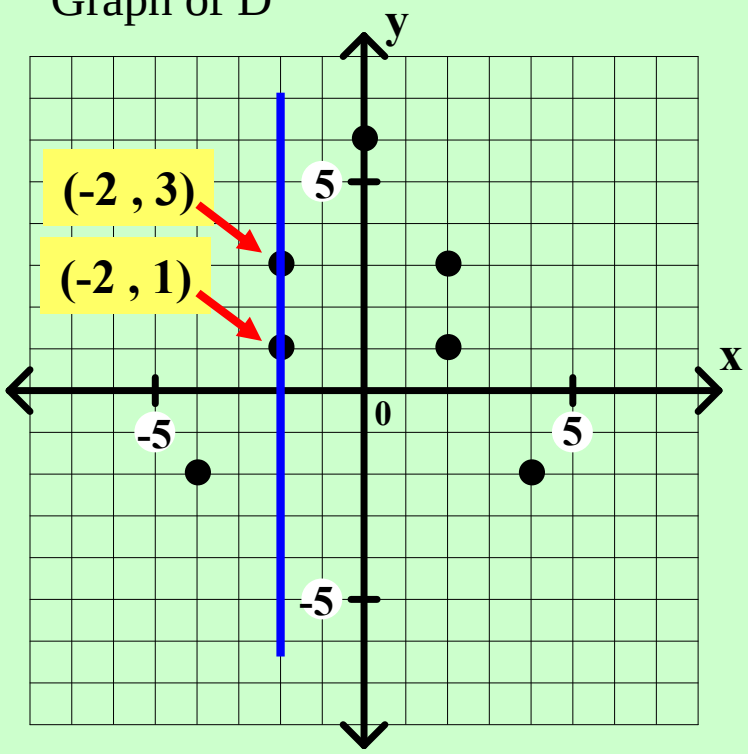


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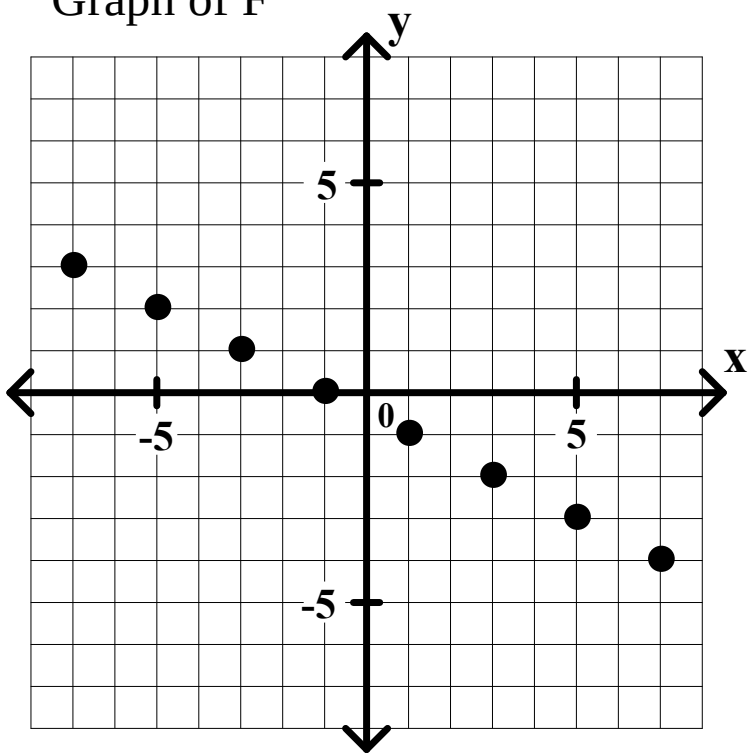

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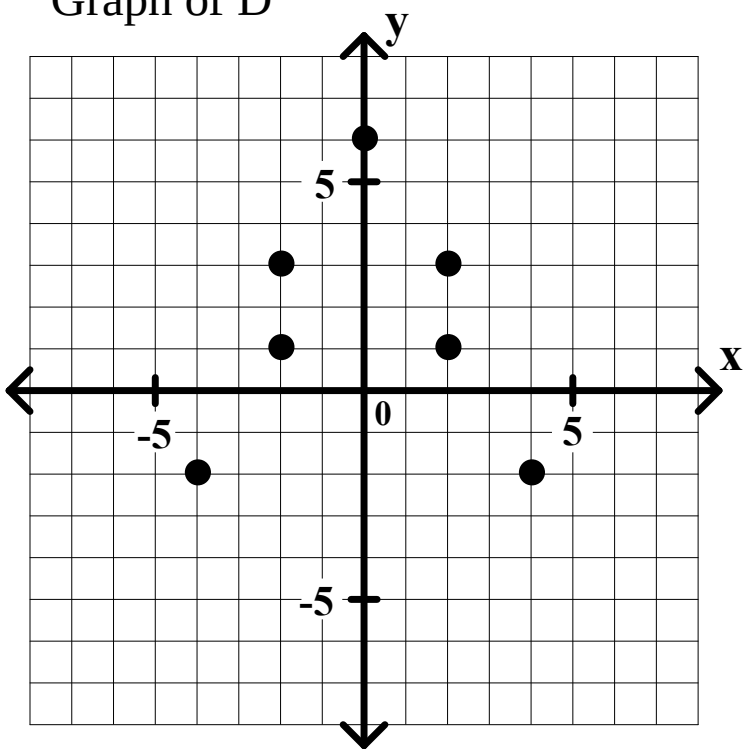


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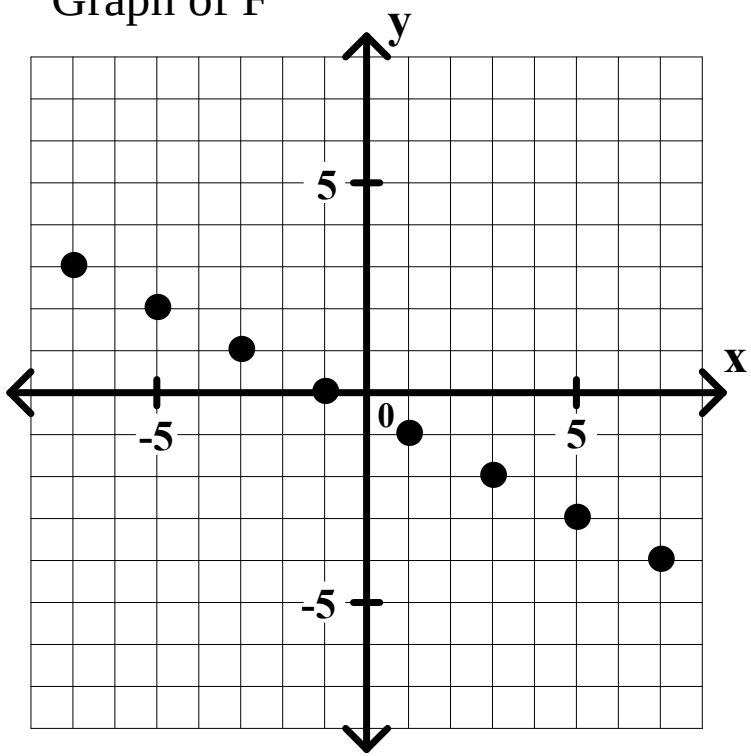

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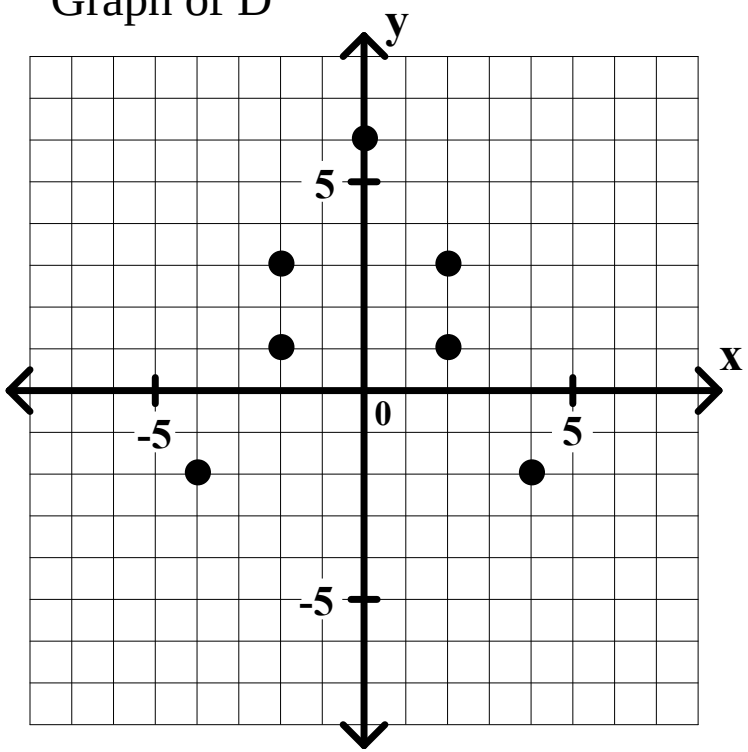


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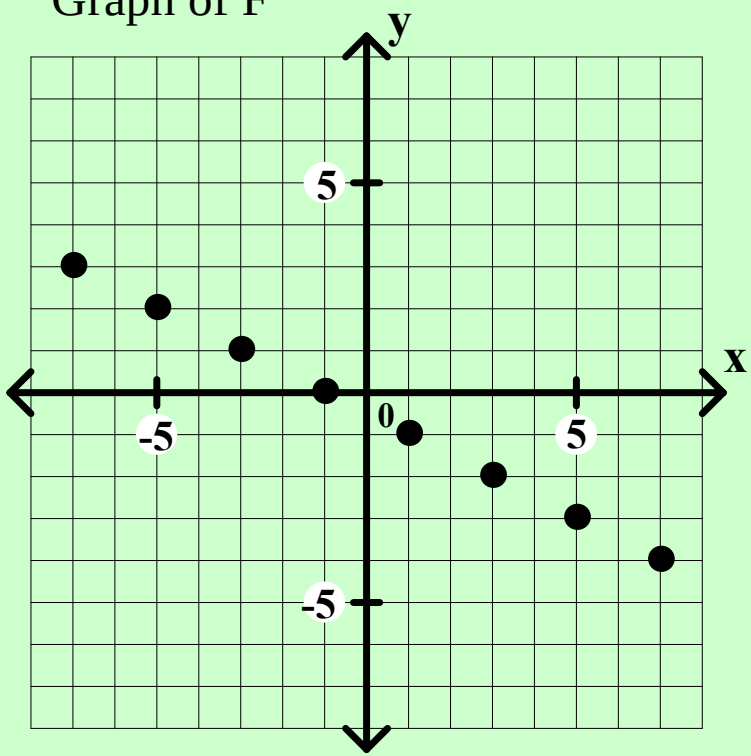

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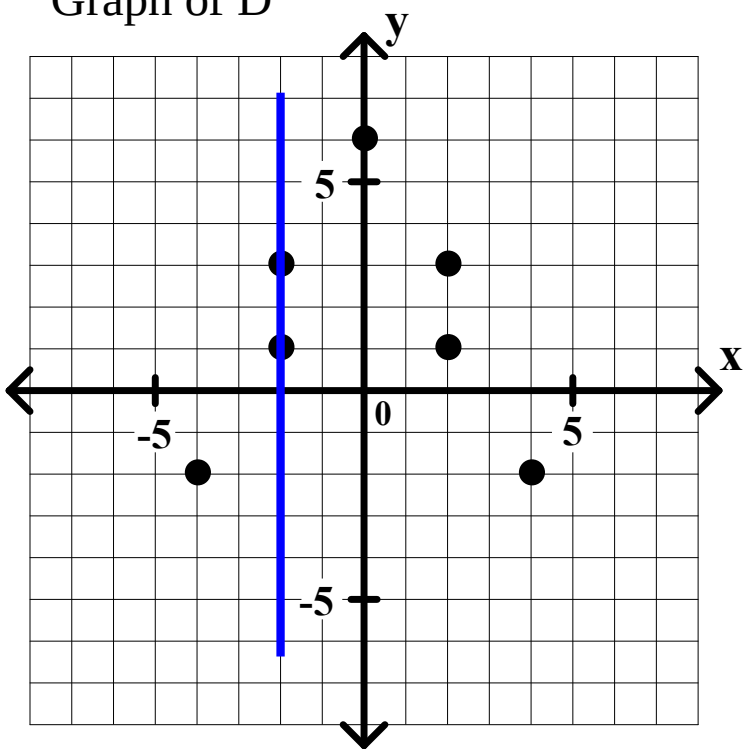


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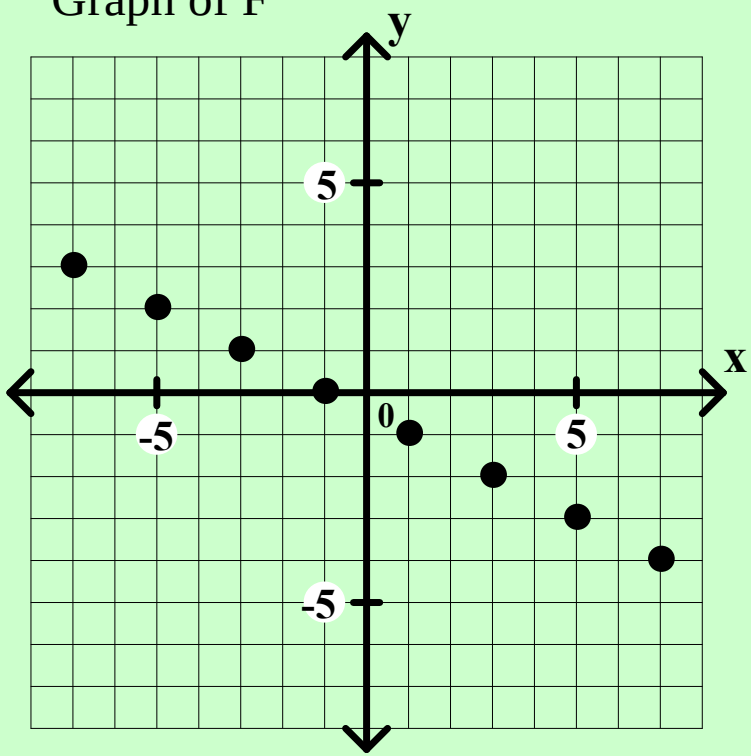

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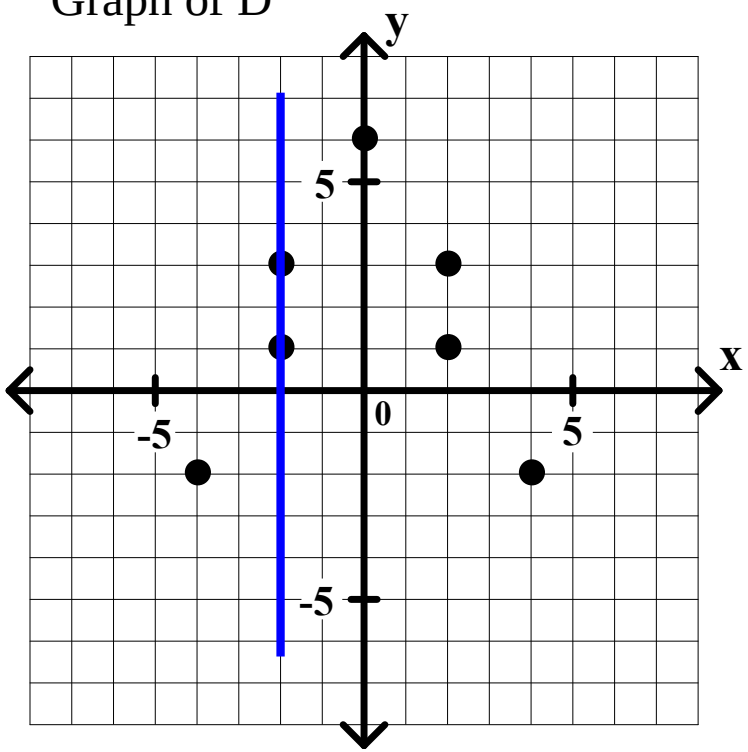
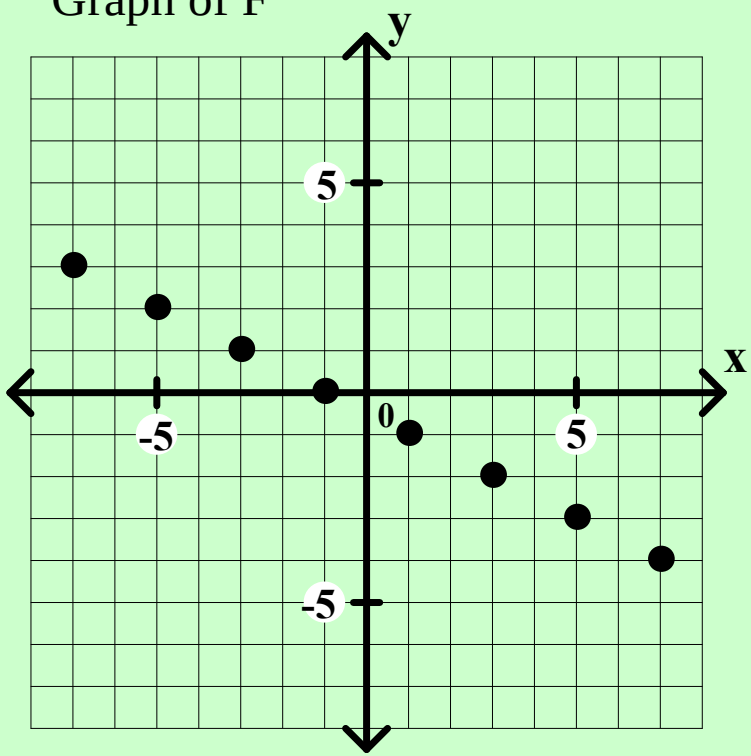



**yes** **5. relation F**

Graph of F



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

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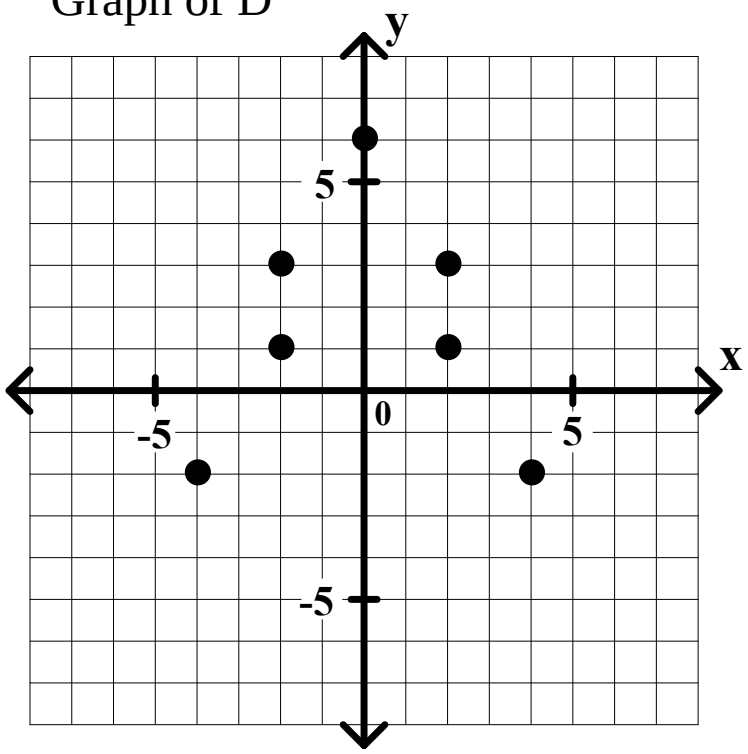
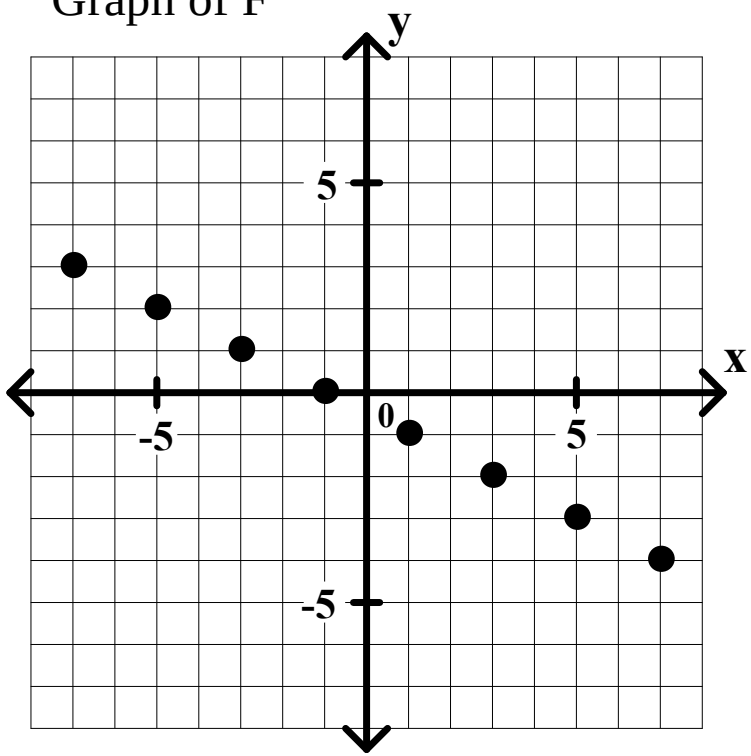
Graph of D




**yes** **5. relation F**

Graph of F



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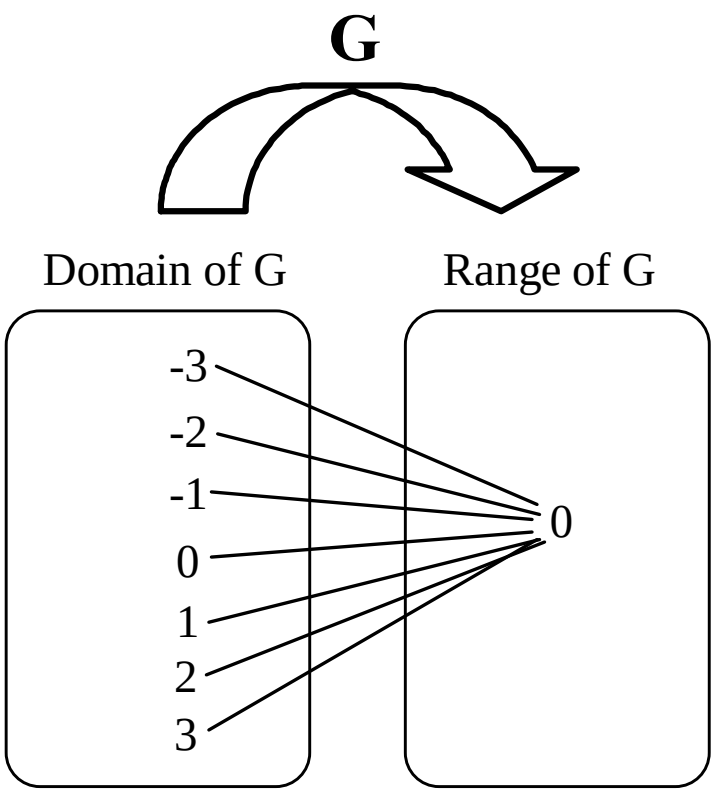
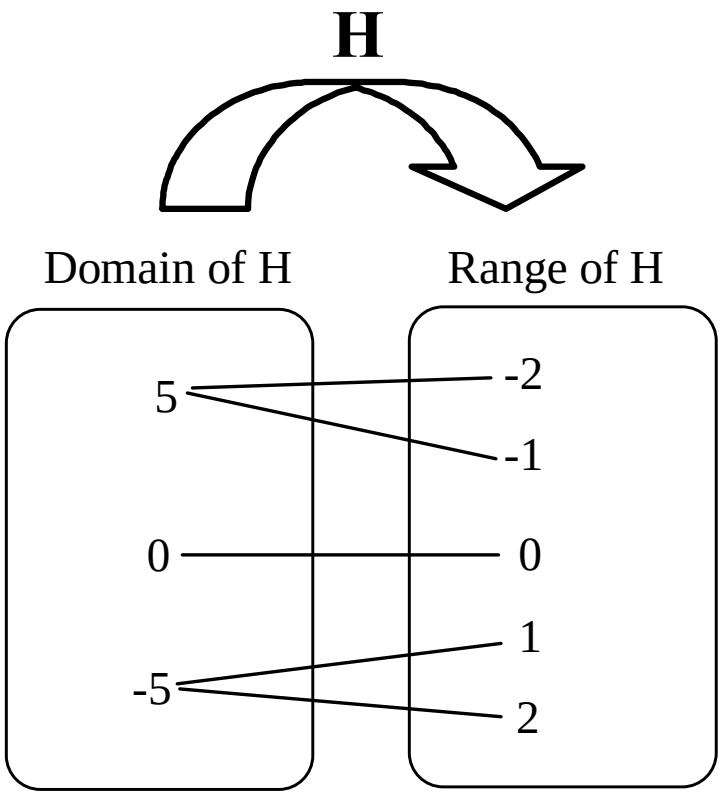



_____ **7. relation H**



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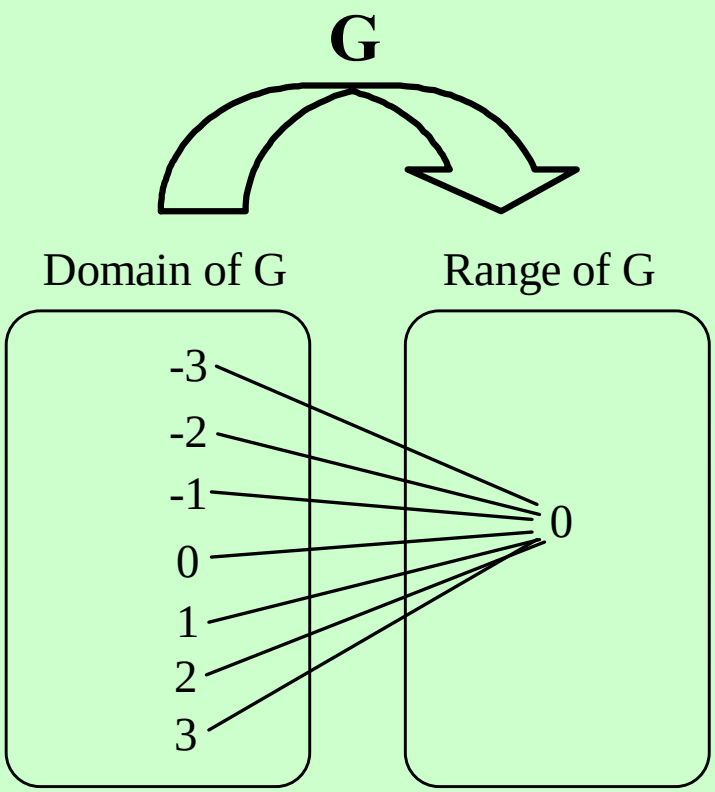


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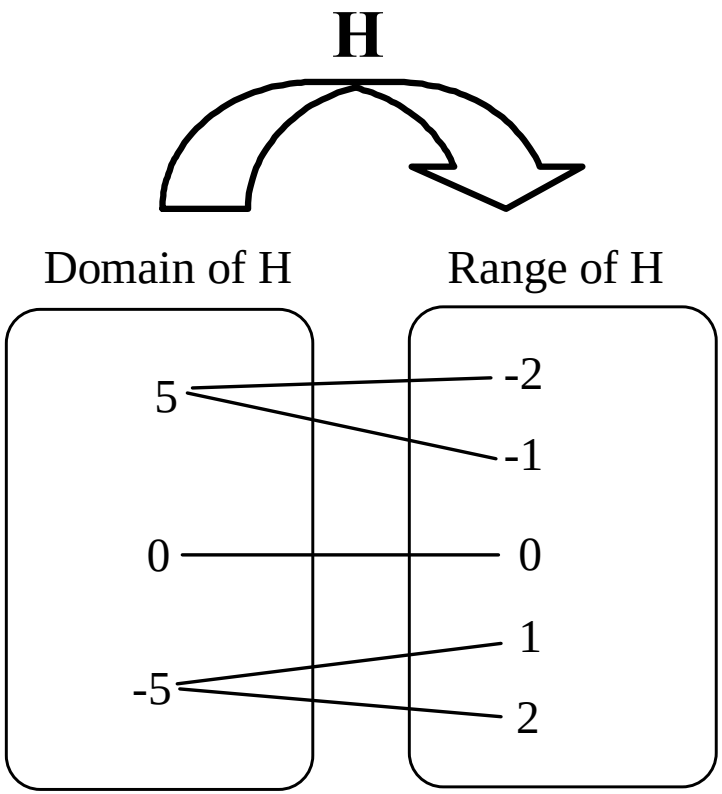

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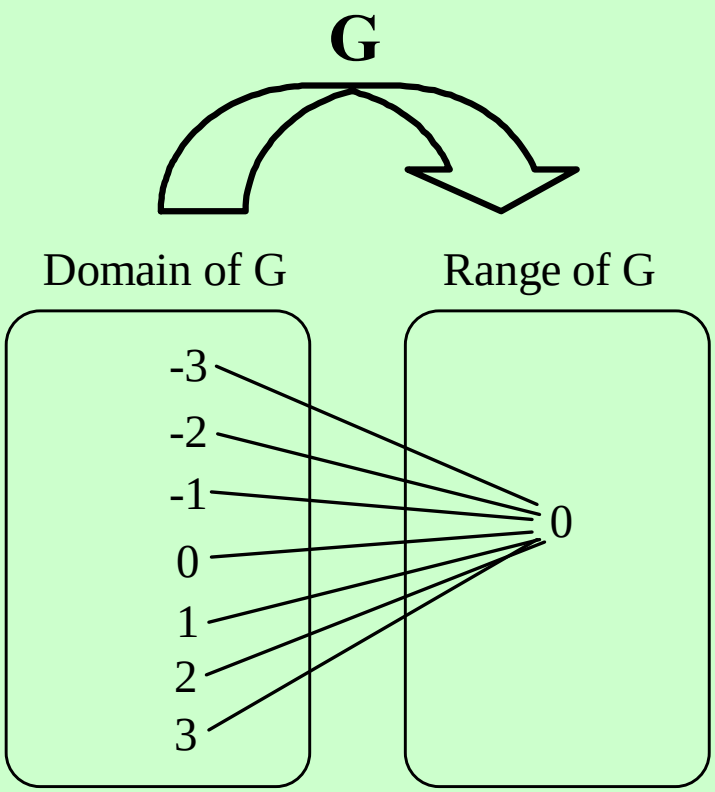


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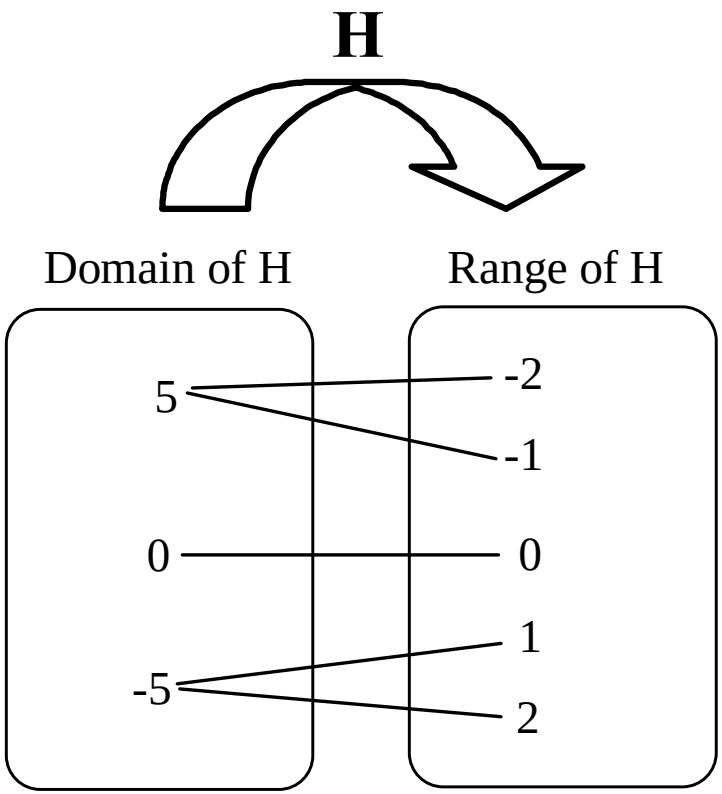

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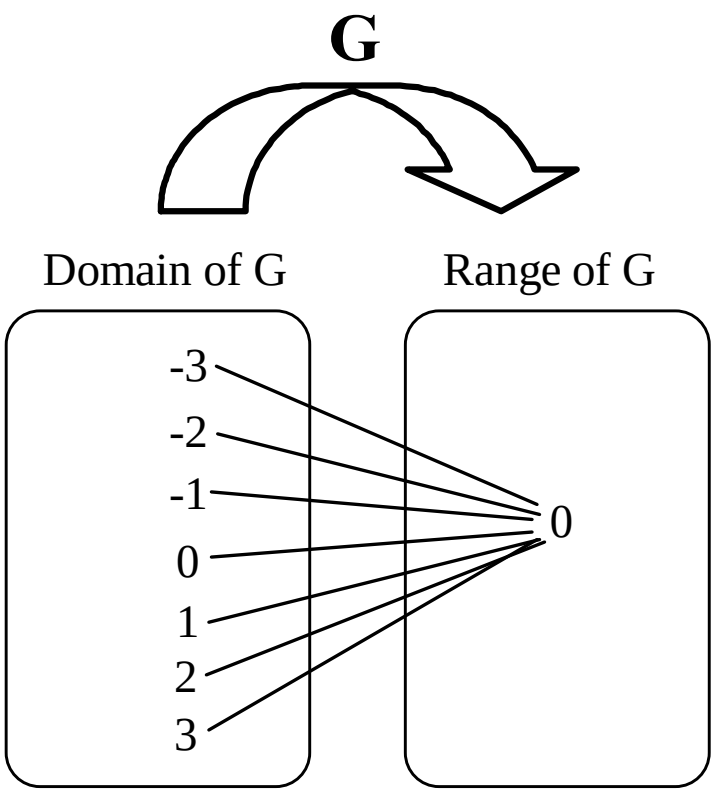


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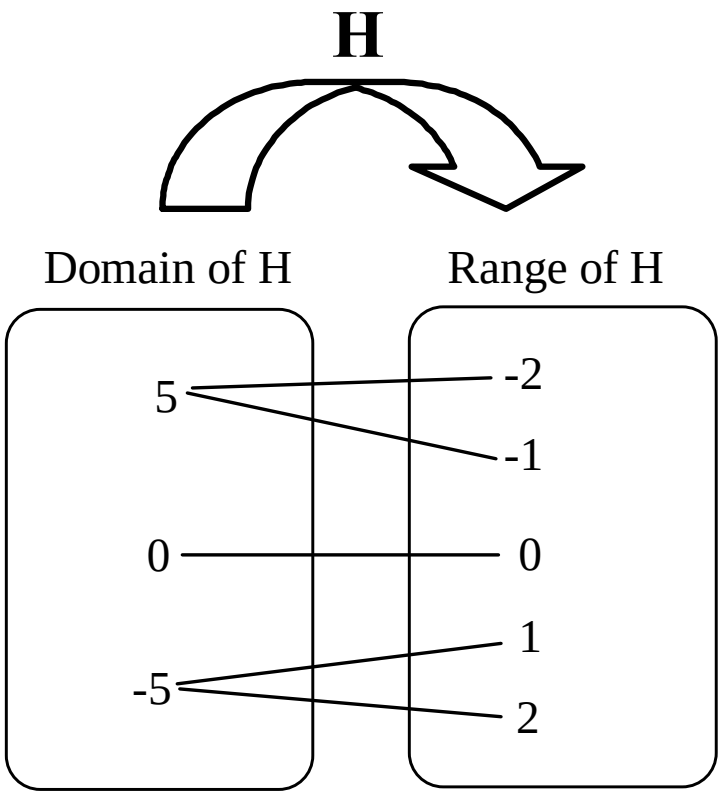

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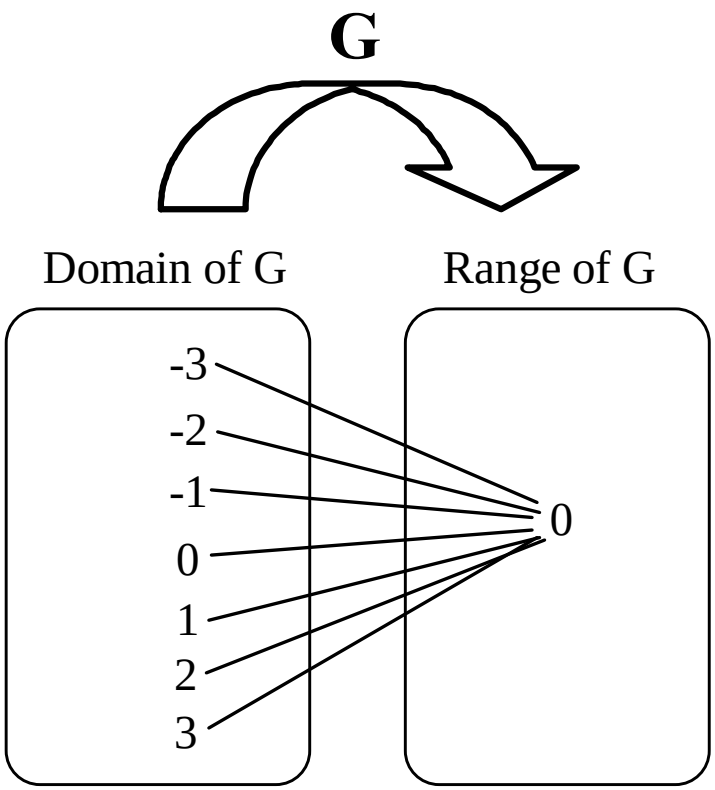


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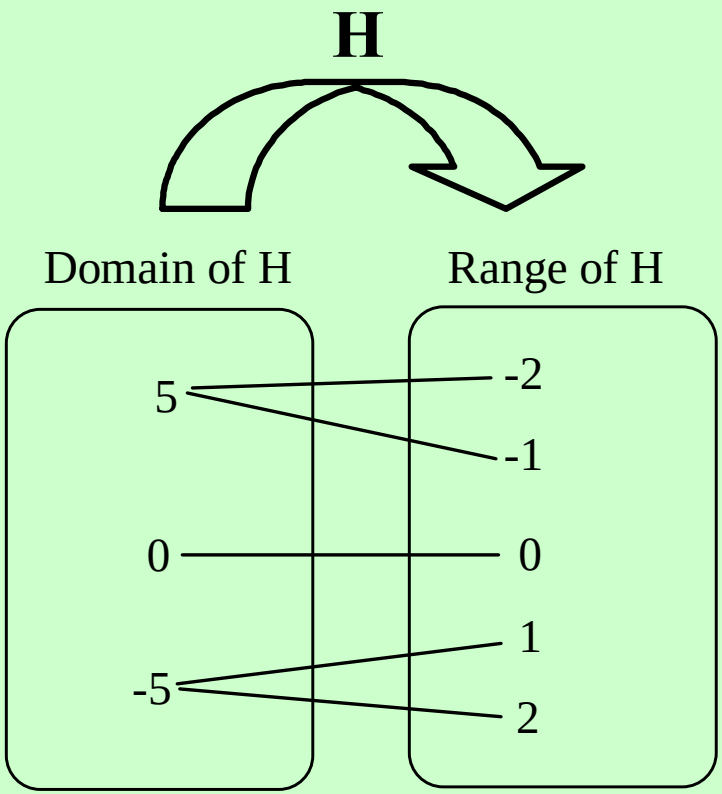

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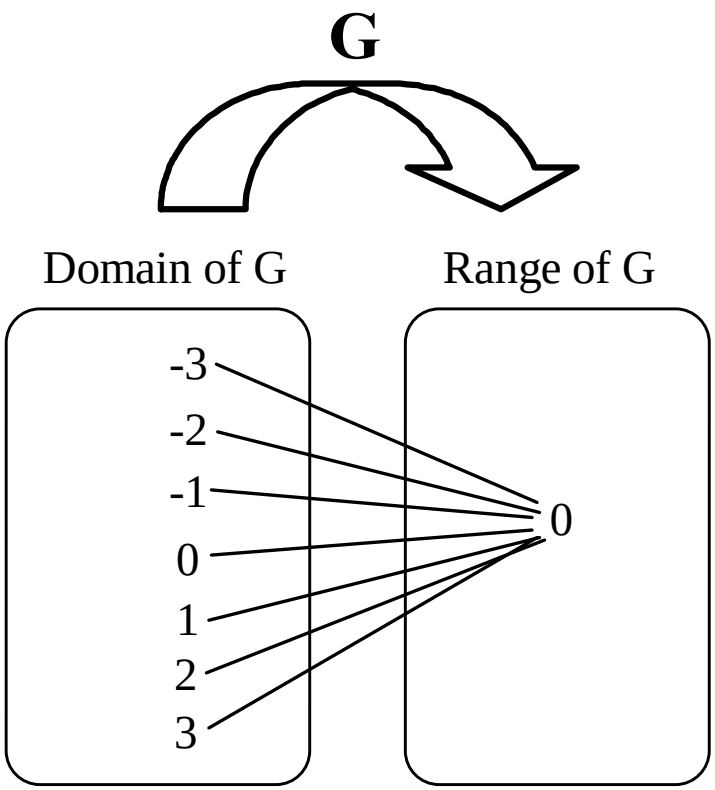


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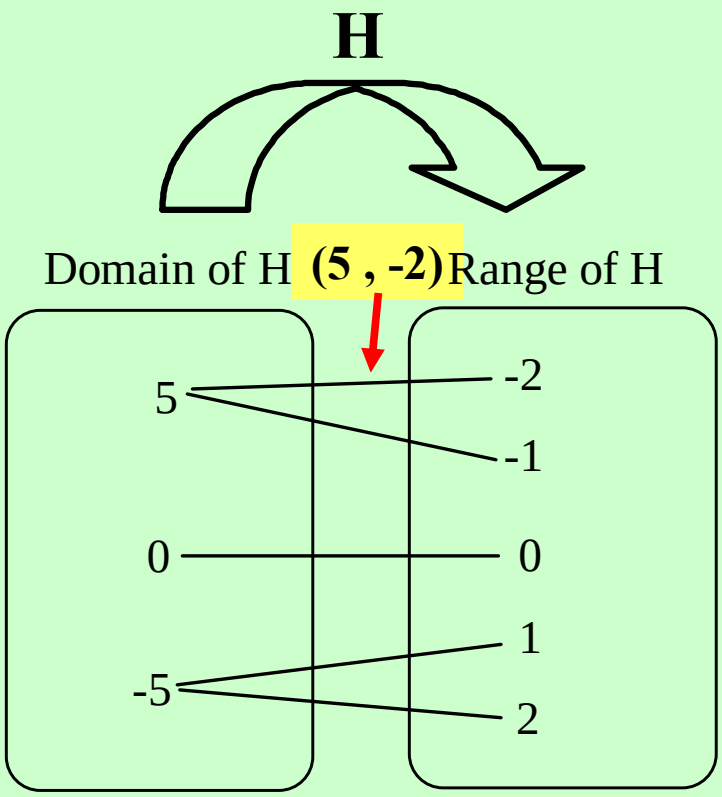

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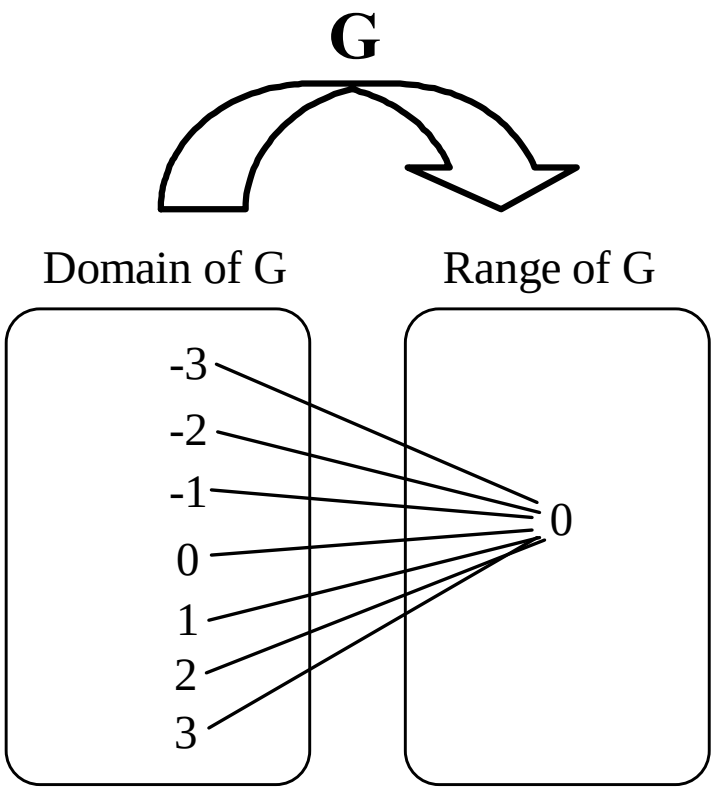


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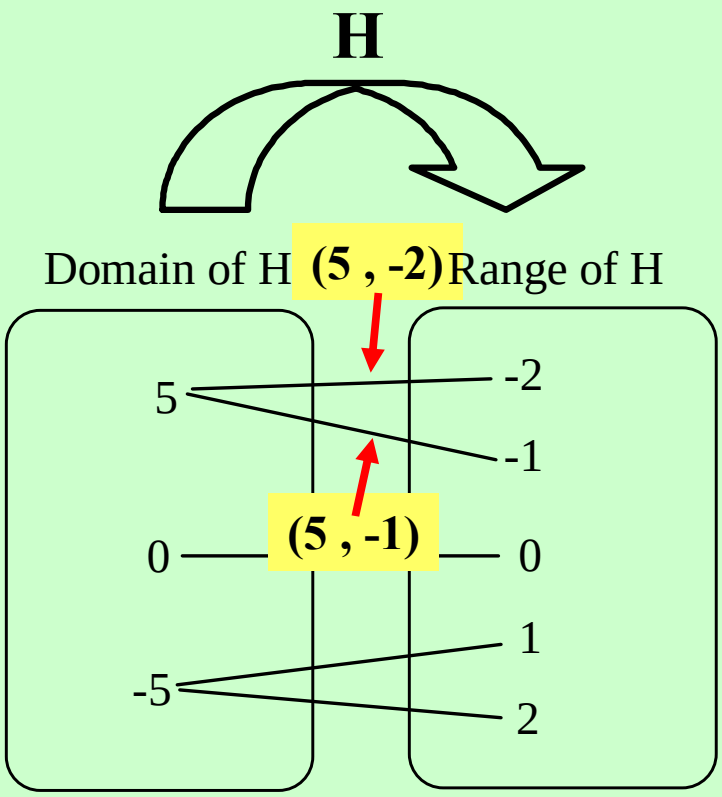

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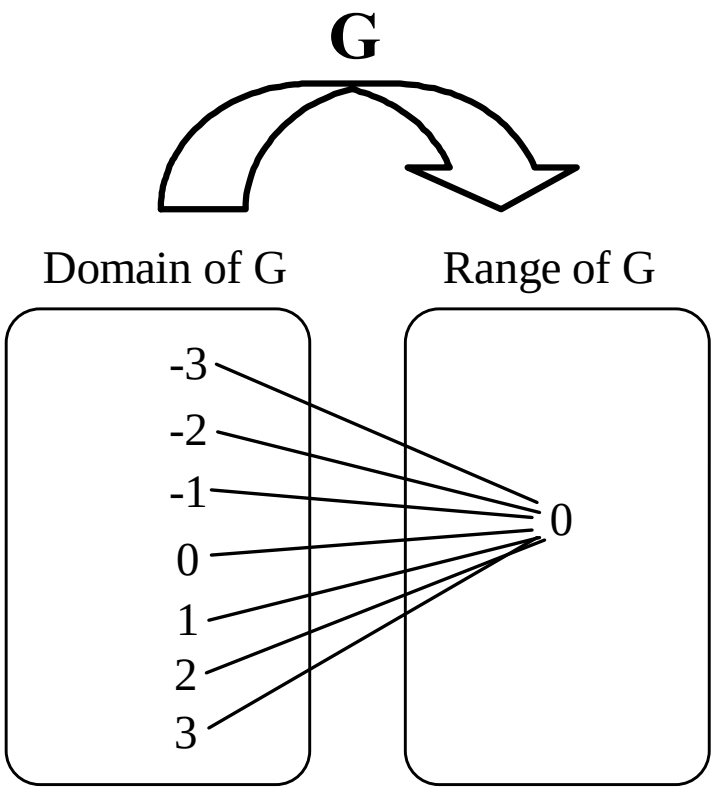


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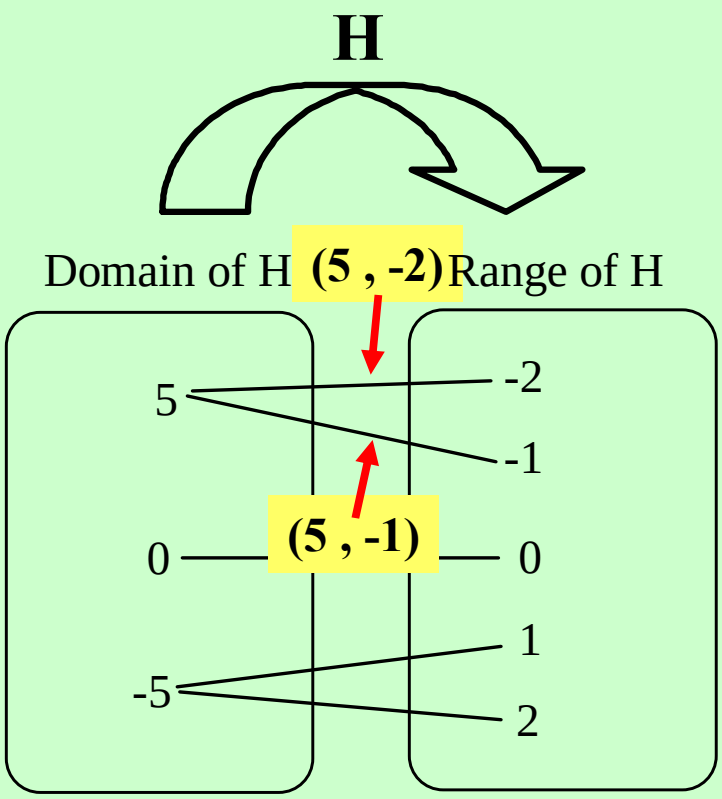

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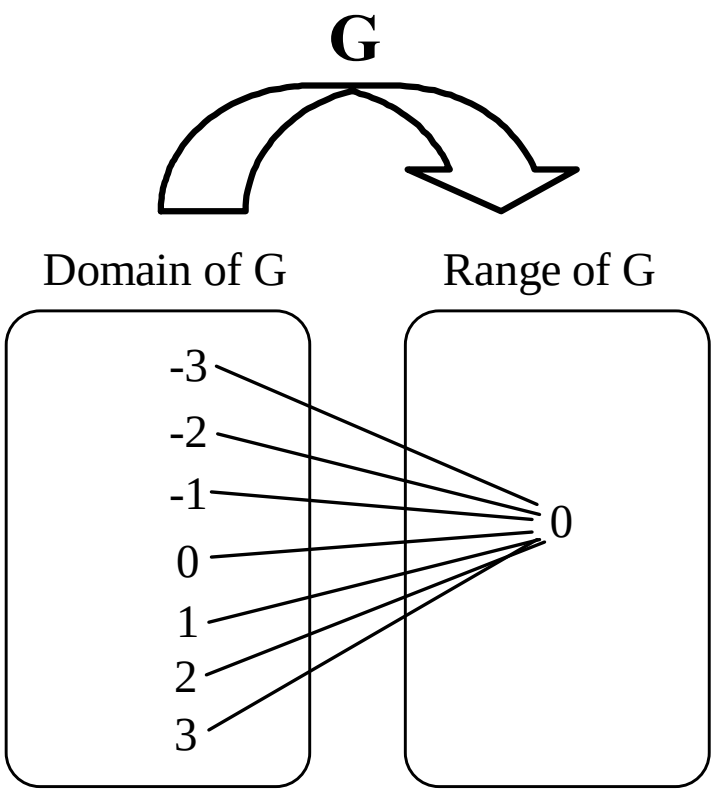


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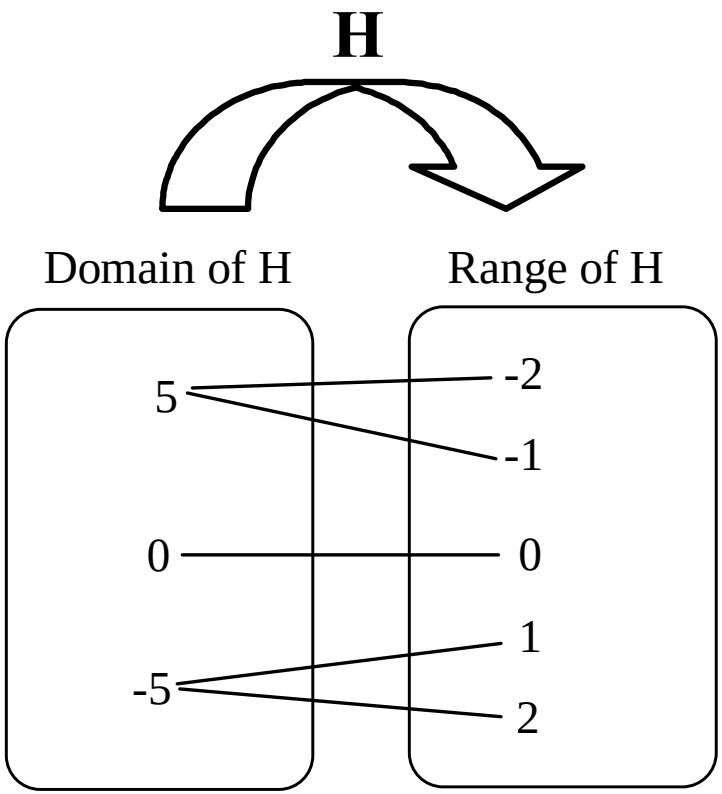

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**8. f(-5) = _____** **9. f(0) = _____** **10. f(2) = _____**

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**f(-5) 'means' the value of y when x = -5**

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**f(-5) = 2(-5) – 1 =**

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**f(0) 'means'**

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**f(0) 'means' the value of y when x = 0**

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$$f(-5) = 2(-5) - 1 = -11$$

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**f(2) 'means'**

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**11. g(-5) = _____** **12. g(0) = _____** **13. g(2) = _____**

**f(-5) 'means' the value of y when x = -5 in the function f.**

$$f(-5) = 2(-5) - 1 = -11$$

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

$$f(0) = 2(0) - 1 = -1$$

**f(2) 'means' the value of y when x = 2 in the function f.**

# Algebra I Unit 8 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.**

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# Algebra I Unit 8 Class Worksheet #2 Functions

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**f(0) = 2(0) – 1 = -1**

**f(2) 'means' the value of y when x = 2 in the function f.**

**f(2) = 2(2) – 1 =**

# Algebra I Unit 8 Class Worksheet #2 Functions

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**f(-5) = 2(-5) – 1 = -11**

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

**f(0) = 2(0) – 1 = -1**

**f(2) 'means' the value of y when x = 2 in the function f.**

**f(2) = 2(2) – 1 = 3**

# Algebra I Unit 8 Class Worksheet #2 Functions

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**Given: Functions f = { (x,y) : y = 2x – 1 } and g = { (x,y) : y = $x^2$ + x }.**
**Evaluate each of the following.**

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**f(-5) 'means' the value of y when x = -5 in the function f.**

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**f(0) = 2(0) – 1 = -1**

**f(2) 'means' the value of y when x = 2 in the function f.**

**f(2) = 2(2) – 1 = 3**

# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation: A relation is a set of ordered pairs.**

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**g(-5) 'means'**

# Algebra I Unit 8 Class Worksheet #2 Functions

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**g(-5) 'means' the value of y when x = -5**

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**g(-5) =**

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**g(-5) =**

# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation:** A relation is a set of ordered pairs.

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**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 =$$

# Algebra I Unit 8 Class Worksheet #2 Functions

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**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

# Algebra I Unit 8 Class Worksheet #2 Functions

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**Given: Functions $f = \{ (x,y) : y = 2x - 1 \}$ and $g = \{ (x,y) : y = x^2 + x \}$.**
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**g(0) 'means'**

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**g(-5) 'means' the value of y when x = -5 in the function g.**

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**g(2) 'means'**

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13. $g(2) =$ _____

**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

**g(2) 'means' the value of y when x = 2**

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**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

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

**g(2) 'means' the value of y when x = 2 in the function g.**

$$g(2) =$$

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**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

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

**g(2) 'means' the value of y when x = 2 in the function g.**

$$g(2) =$$

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**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

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

**g(2) 'means' the value of y when x = 2 in the function g.**

$$g(2) = (2)^2 + 2 =$$

# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation:** A relation is a set of ordered pairs.

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11. $g(-5) =$ 20
12. $g(0) =$ 0
13. $g(2) =$ _____

**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

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

**g(2) 'means' the value of y when x = 2 in the function g.**

$$g(2) = (2)^2 + 2 = 6$$

# Algebra I Unit 8 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 $f = \{ (x,y) : y = 2x - 1 \}$ and $g = \{ (x,y) : y = x^2 + x \}$.**
**Evaluate each of the following.**

8. $f(-5) = -11$
9. $f(0) = -1$
10. $f(2) = 3$
11. $g(-5) = 20$
12. $g(0) = 0$
13. $g(2) = 6$

**g(-5) 'means' the value of y when x = -5 in the function g.**

$$g(-5) = (-5)^2 + -5 = 20$$

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

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

**g(2) 'means' the value of y when x = 2 in the function g.**

$$g(2) = (2)^2 + 2 = 6$$

# Algebra I Unit 8 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 $H(x) = 3x - 5$ and $L(x) = 1 - x^2$. Evaluate each of the following.**

**8. H(-5) = _____** **9. H(0) = _____** **10. H(5) = _____**

**11. L(-5) = _____** **12. L(0) = _____** **13. L(5) = _____**

# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation: A relation is a set of ordered pairs.**

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**Given: Functions H and L defined by the equation $H(x) = 3x - 5$ and $L(x) = 1 - x^2$. Evaluate each of the following.**

**8. H(-5) = _____** **9. H(0) = _____** **10. H(5) = _____**

**11. L(-5) = _____** **12. L(0) = _____** **13. L(5) = _____**

**H(x) =**

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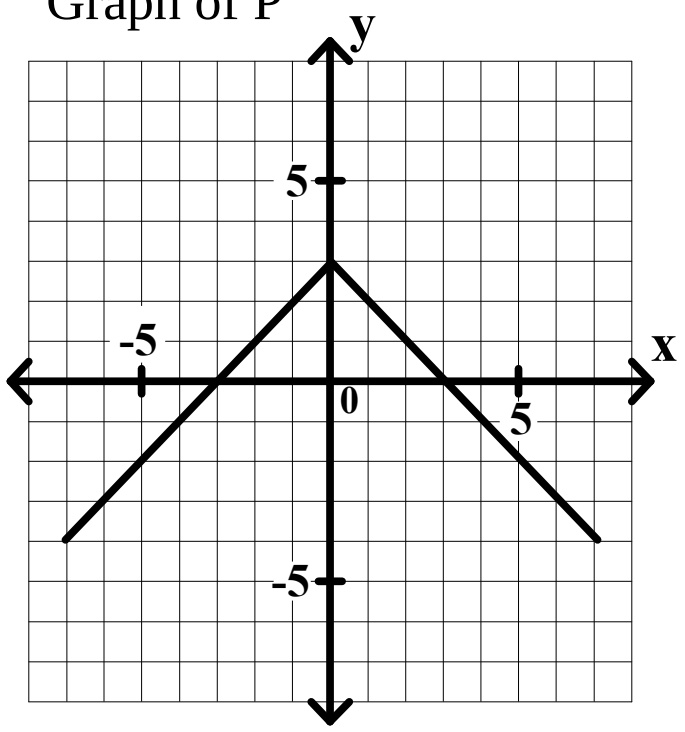
Given the function P defined by this graph.

Graph of P




20. Write an inequality to describe the domain of P? _____

21. Write an inequality to describe the range of P? _____

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

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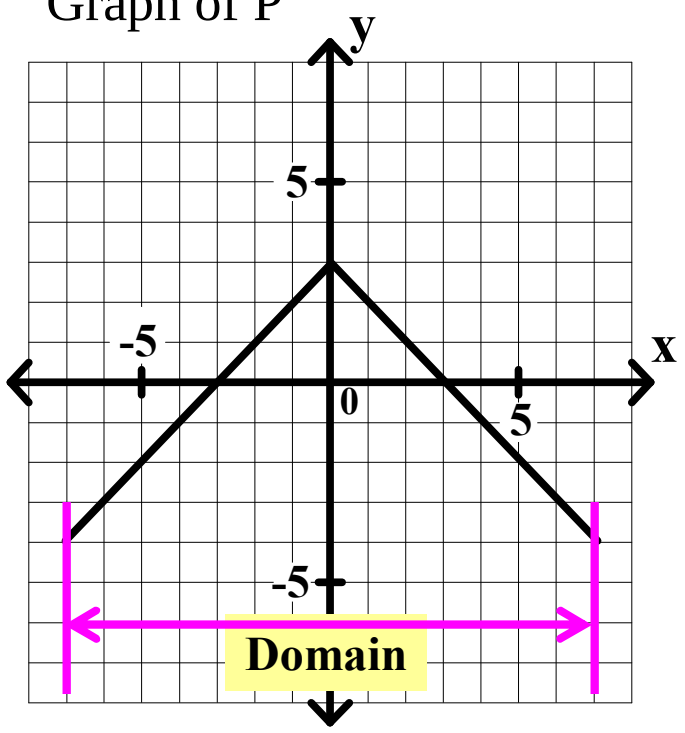

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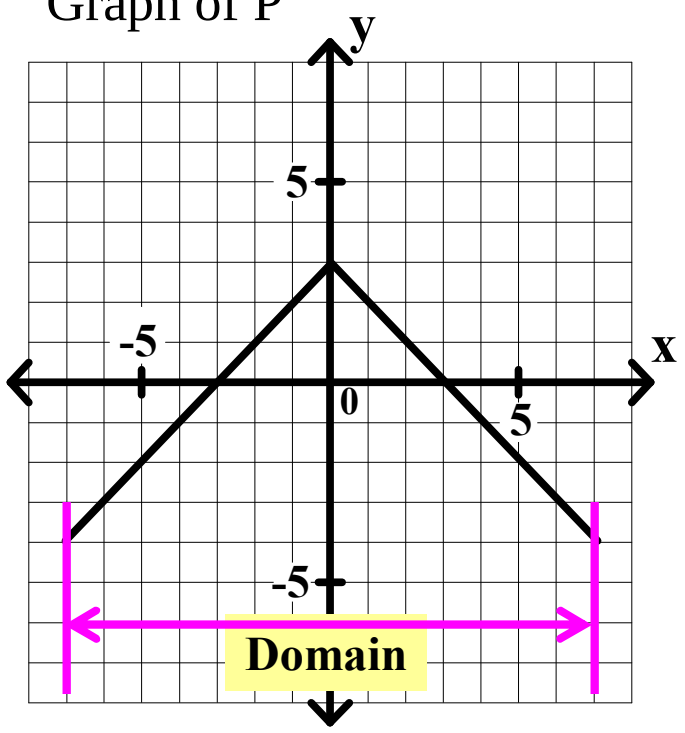


20. Write an inequality to describe the domain of P? $-7$ _____

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Evaluate each of the following.

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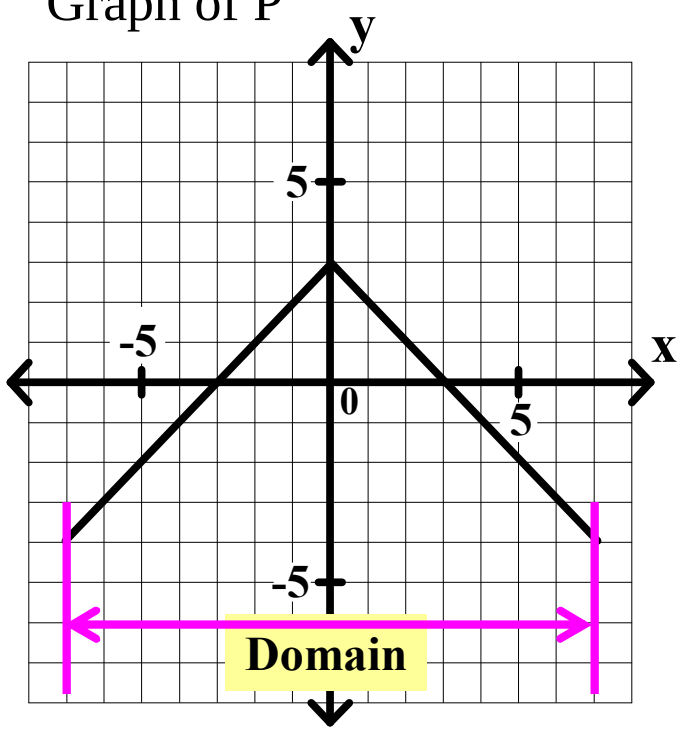


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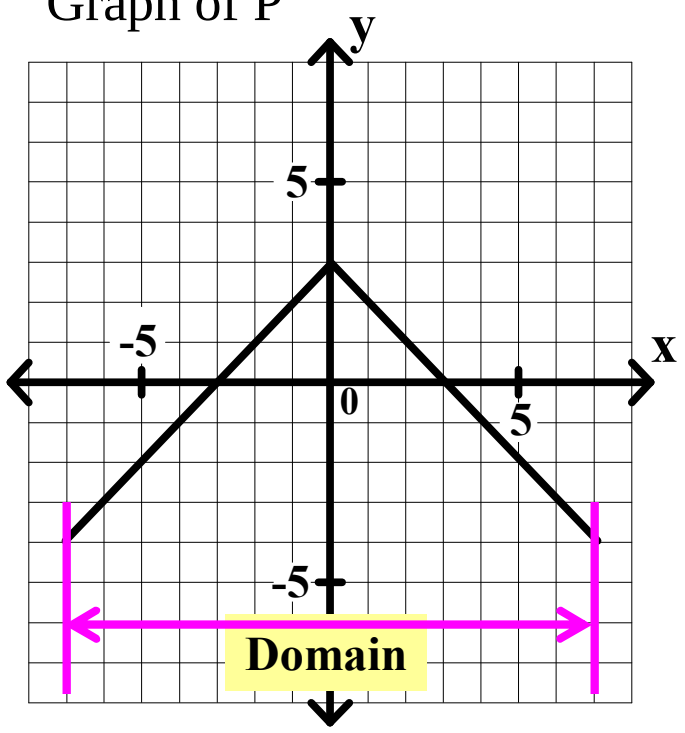


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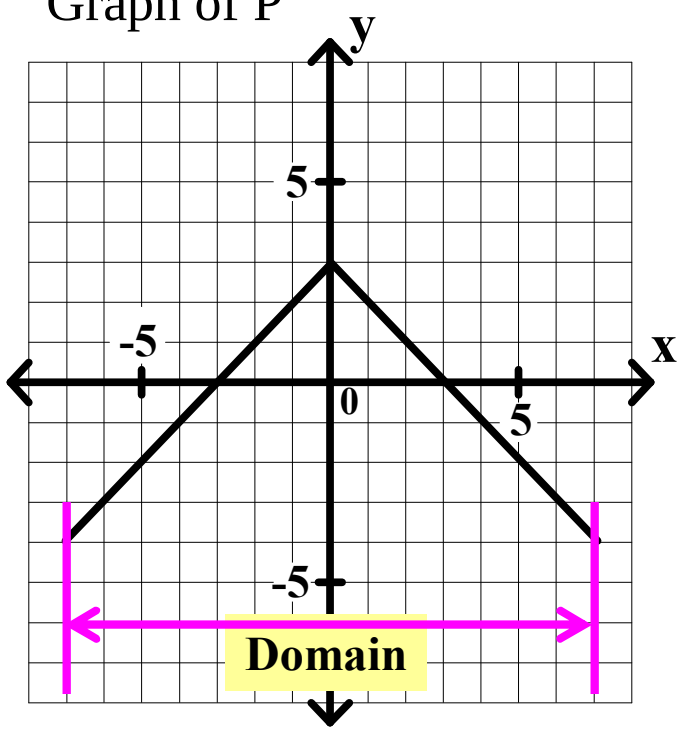


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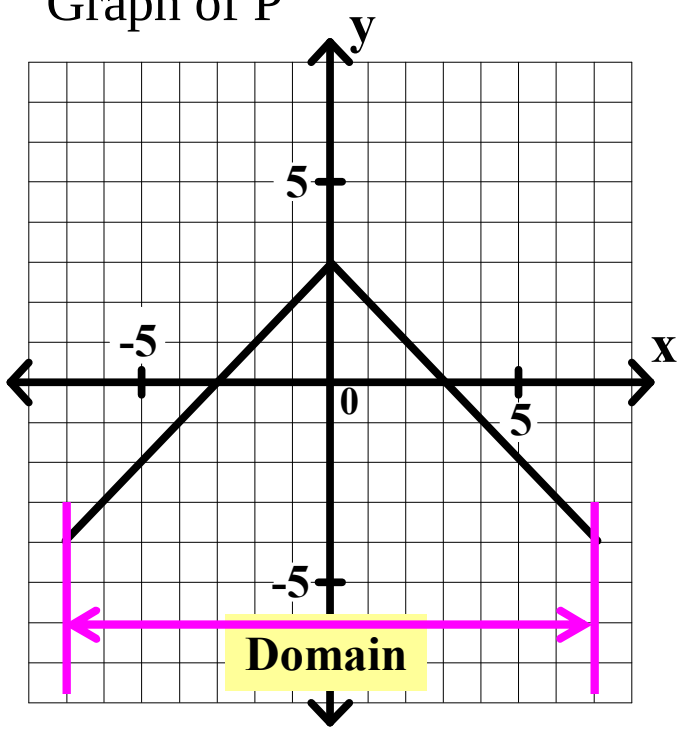



20. Write an inequality to describe the domain of P? $-7 \leq x \leq 7$

21. Write an inequality to describe the range of P? _____

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

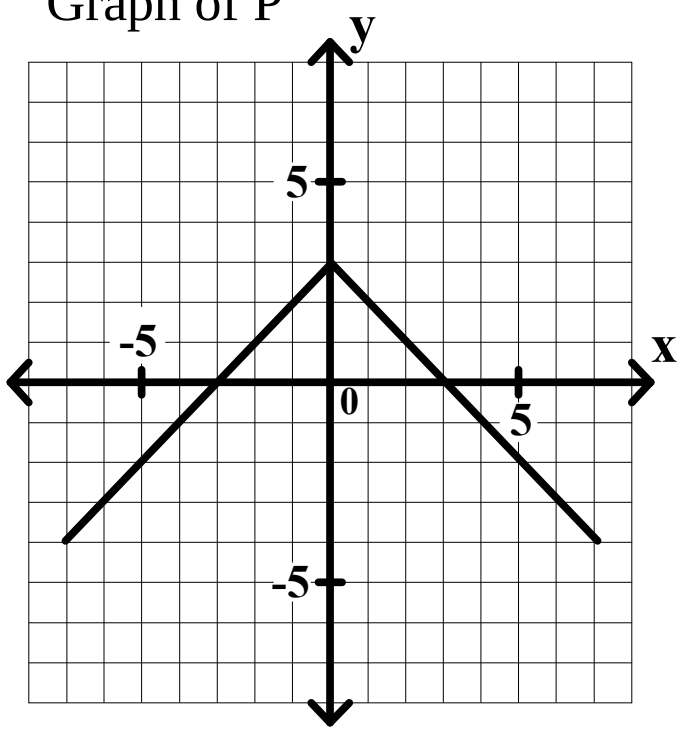
# Algebra I Unit 8 Class Worksheet #2 Functions

**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. Write an inequality to describe the domain of P? $-7 \leq x \leq 7$

21. Write an inequality to describe the range of P? _____

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

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# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation: A relation is a set of ordered pairs.**

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Given the function P defined by this graph.

20. Write an inequality to describe the domain of P? $-7 \leq x \leq 7$

21. Write an inequality to describe the range of P? _____

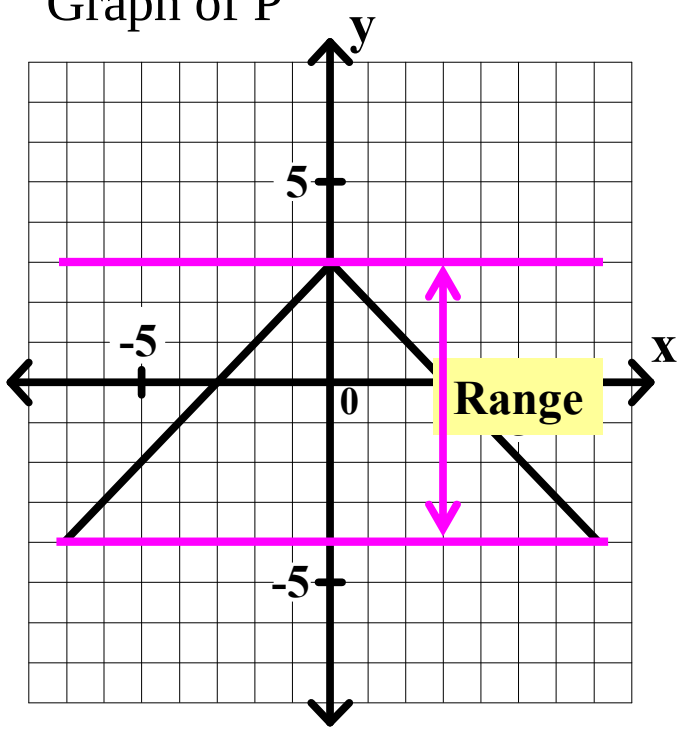
Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

Graph of P



# Algebra I Unit 8 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.

20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **-4**

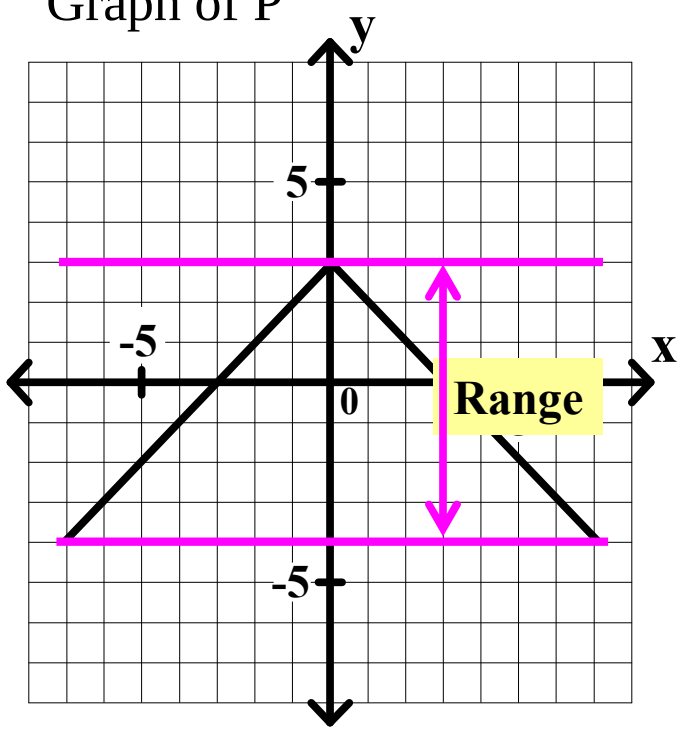
Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

Graph of P



# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation: A relation is a set of ordered pairs.**

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Given the function P defined by this graph.

20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq$** _____

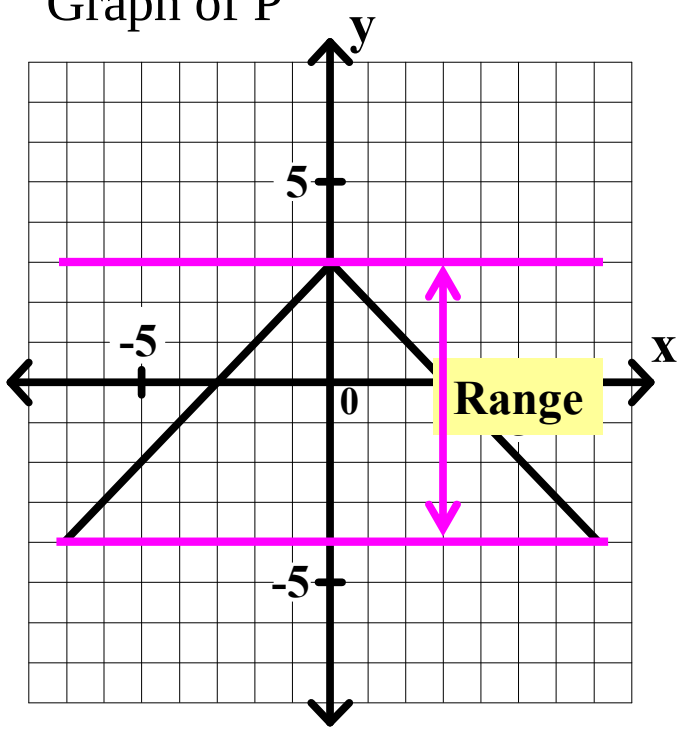
Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

Graph of P



# Algebra I Unit 8 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.

20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq P(x)$**

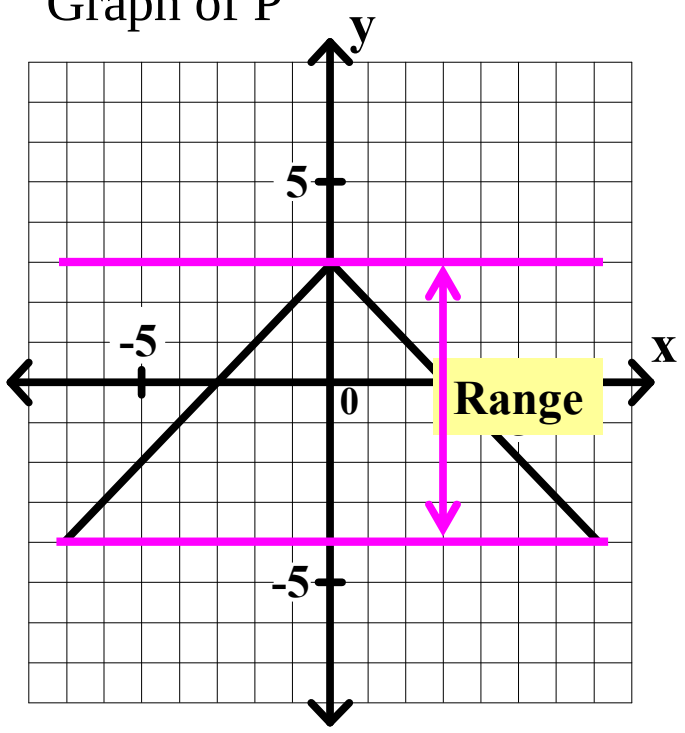
Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

Graph of P



# Algebra I Unit 8 Class Worksheet #2 Functions

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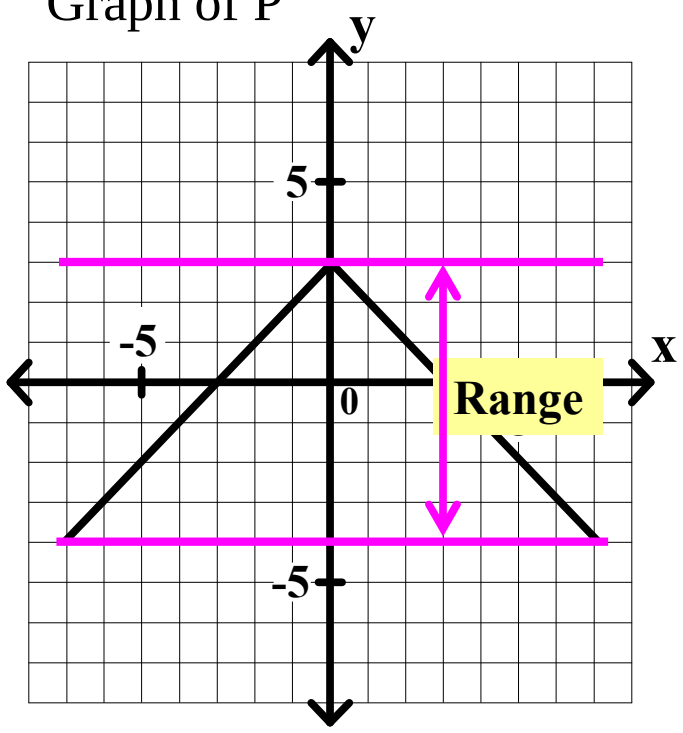
Graph of P




20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq$**

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

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# Algebra I Unit 8 Class Worksheet #2 Functions

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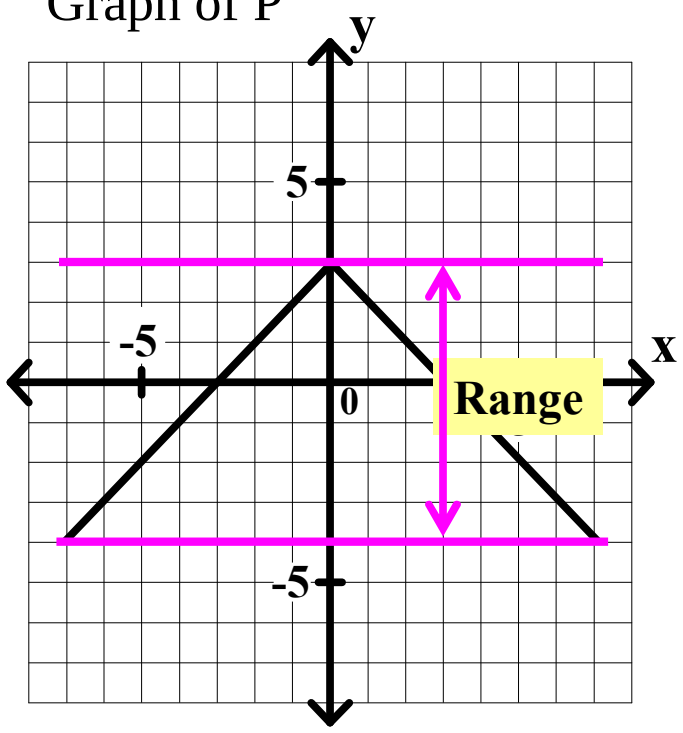


20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

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# Algebra I Unit 8 Class Worksheet #2 Functions

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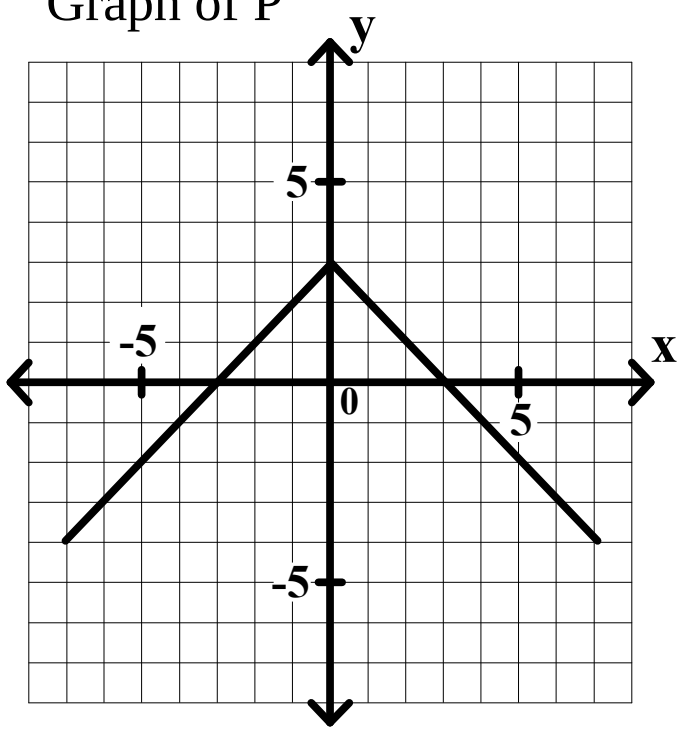


20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = _____

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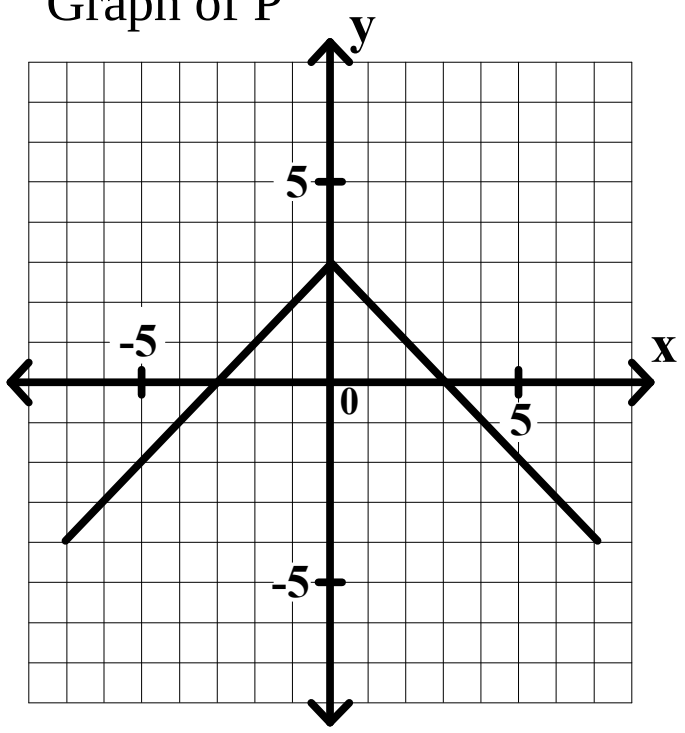


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Given the function P defined by this graph.

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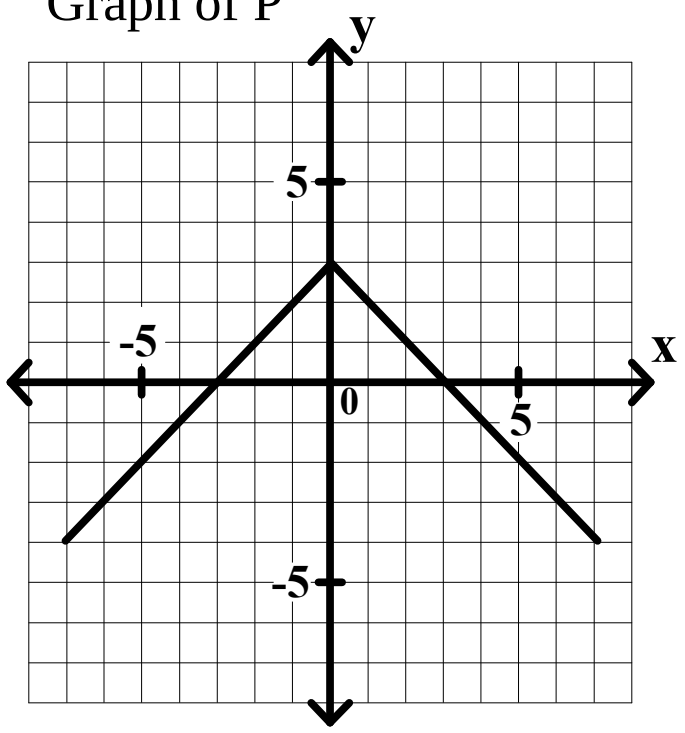


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21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

**P(-5) 'means' the value of y when x = -5 in the function P.**

# Algebra I Unit 8 Class Worksheet #2 Functions

**Relation: A relation is a set of ordered pairs.**

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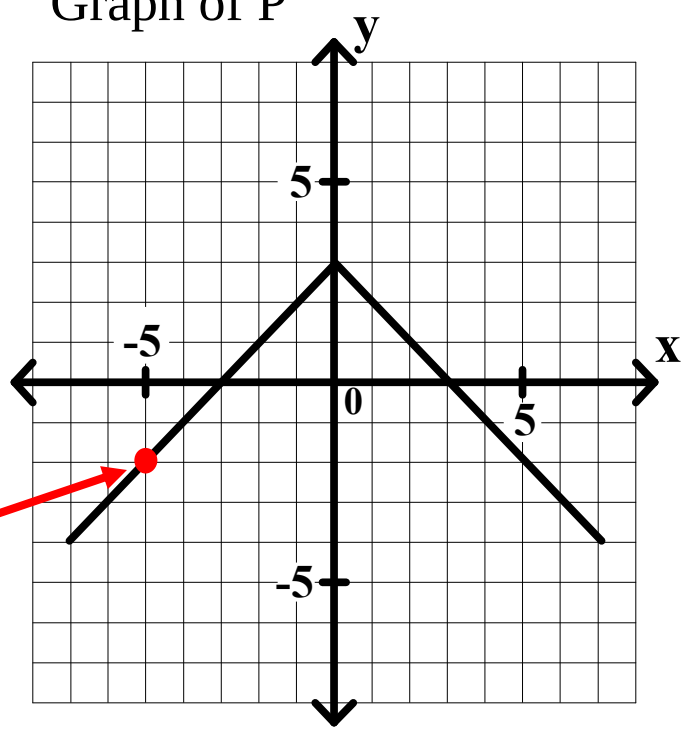
Given the function P defined by this graph.

Graph of P

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Evaluate each of the following.

22. P(-5) = _____

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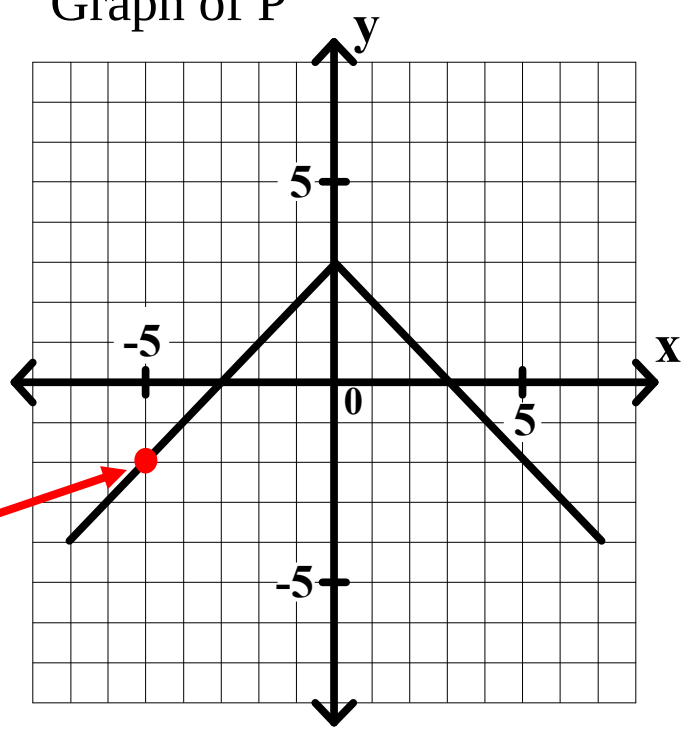


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21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

24. P(2) = _____

(-5, -2)

**P(-5) 'means' the value of y when x = -5 in the function P.**

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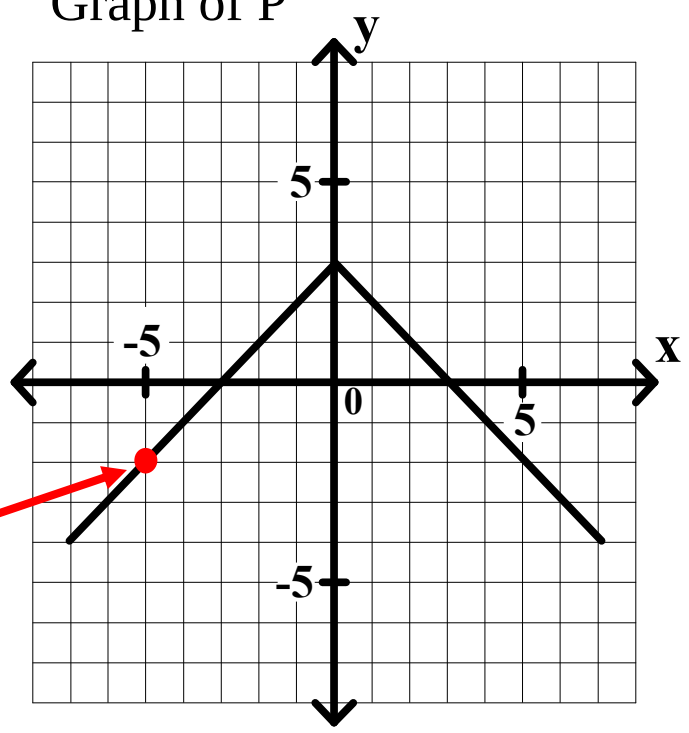


20. Write an inequality to describe the domain of P? **$-7 \leq x \leq 7$**

21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = _____

23. P(0) = _____

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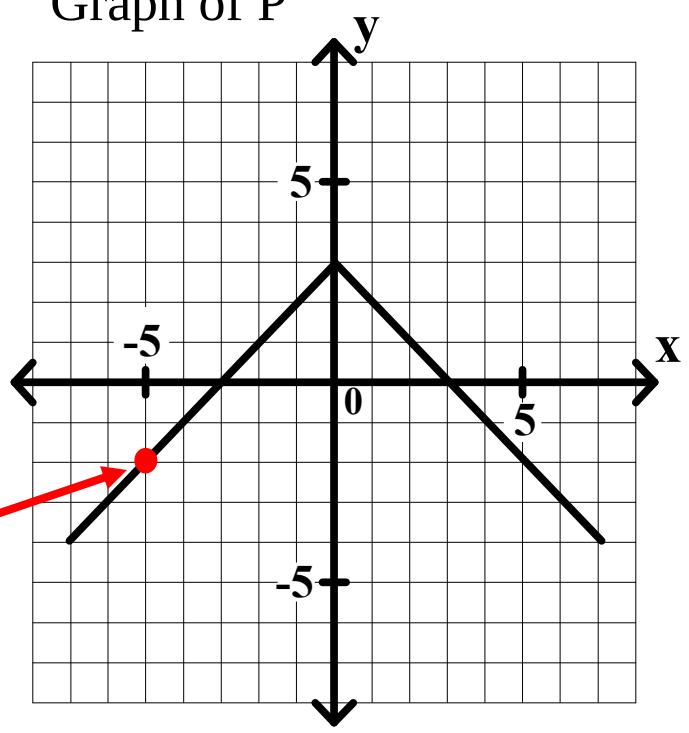


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21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = **-2**

23. P(0) = _____

24. P(2) = _____

(-5, -2)

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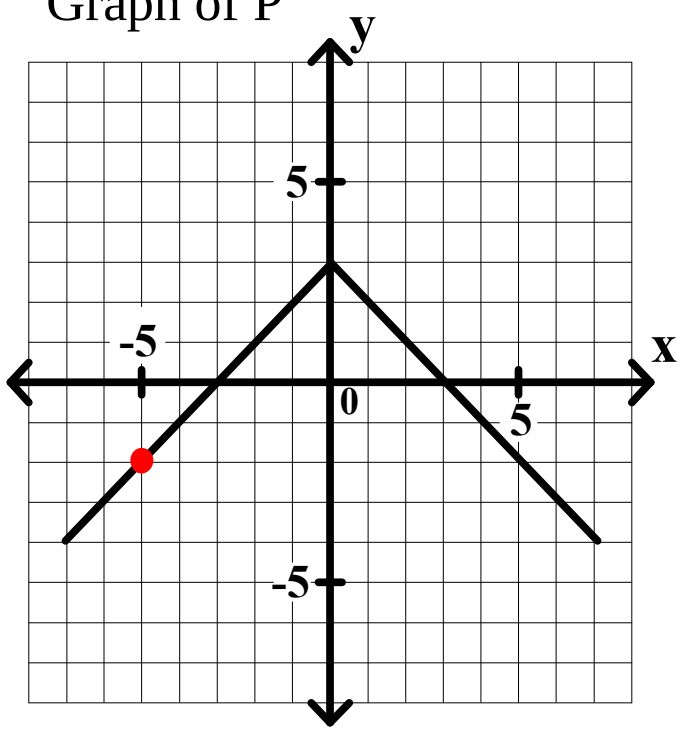


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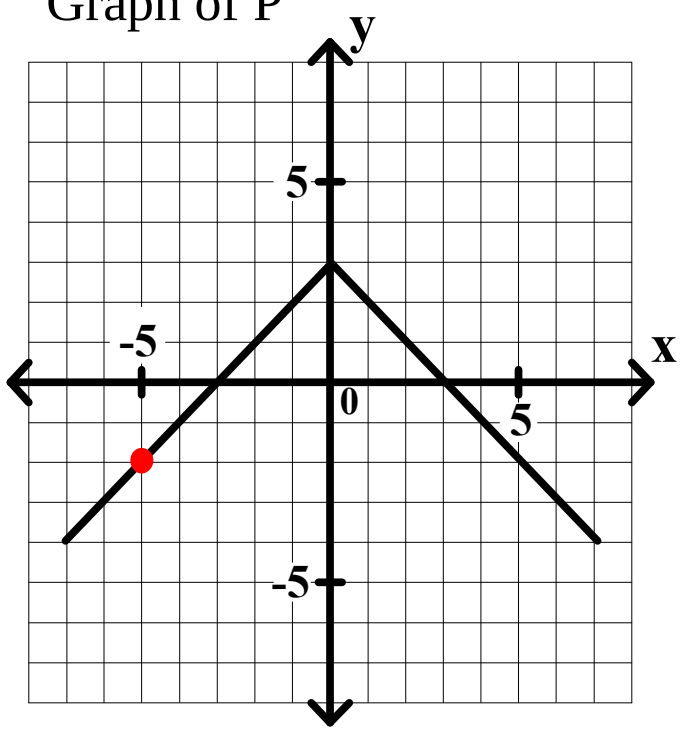


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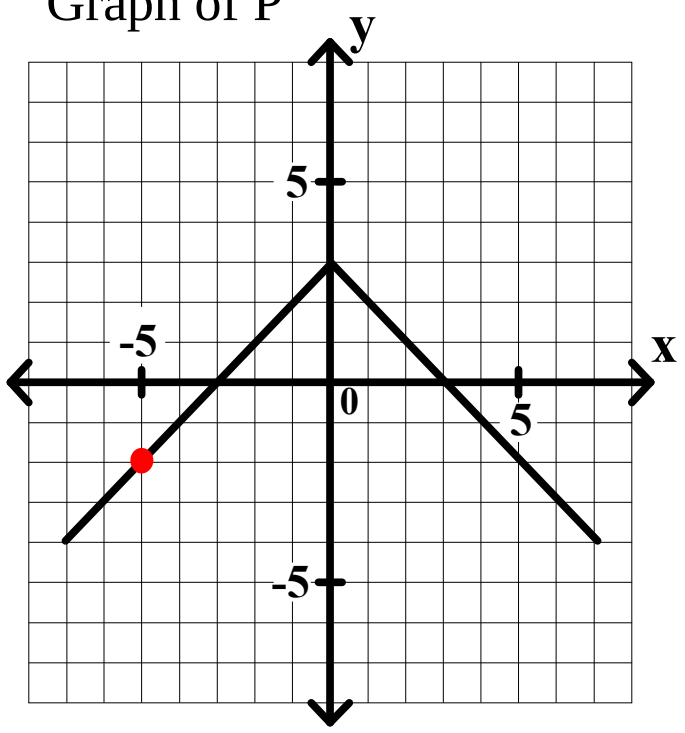


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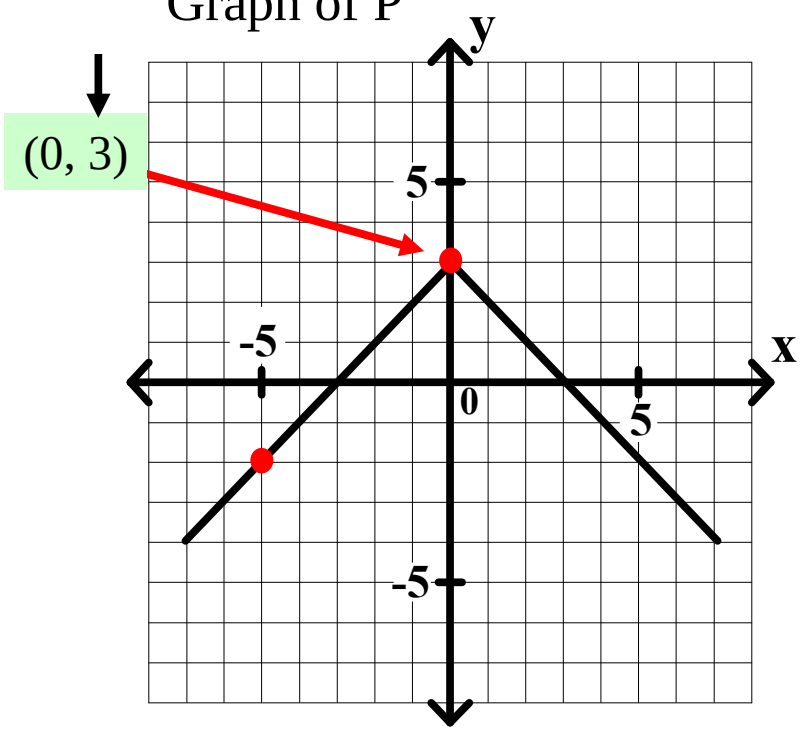


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Evaluate each of the following.

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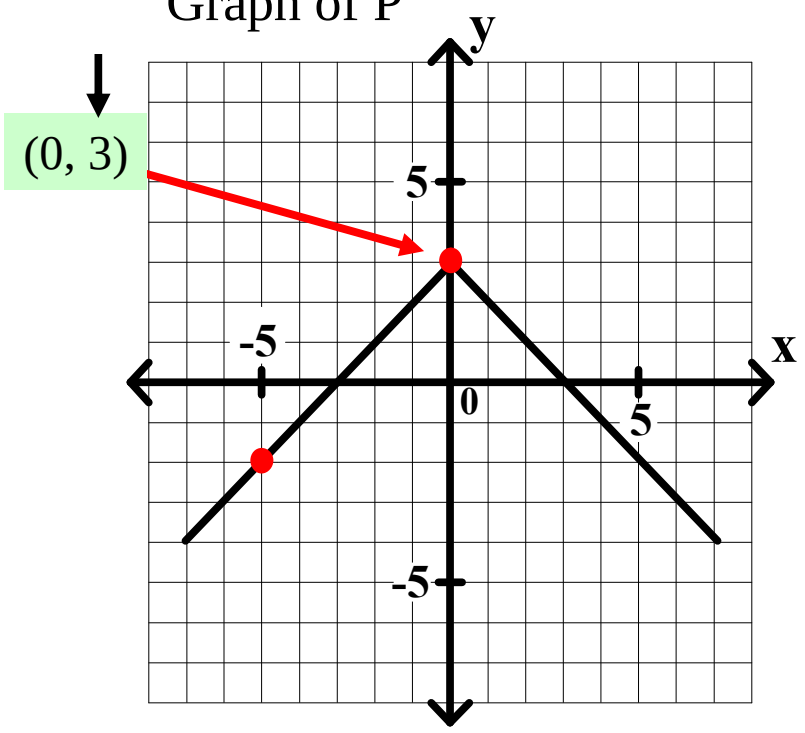


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Evaluate each of the following.

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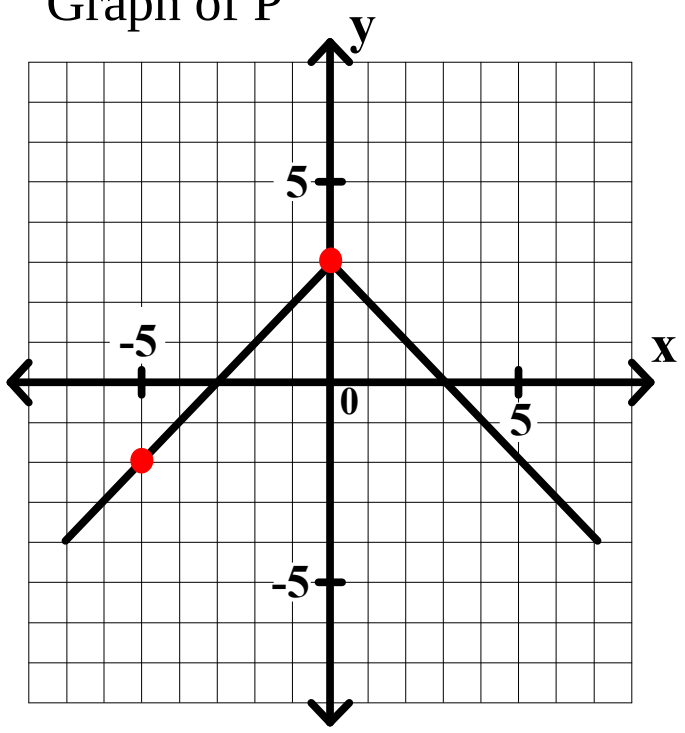


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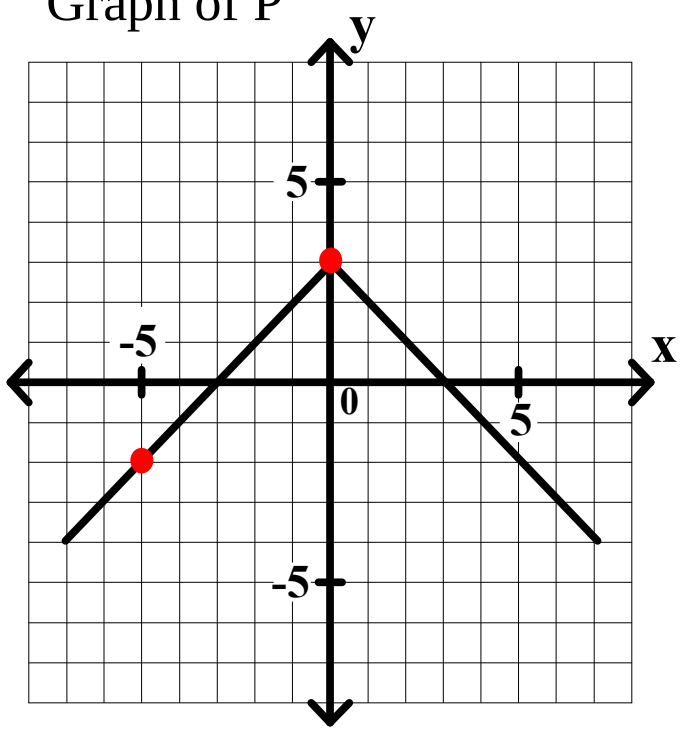


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Evaluate each of the following.

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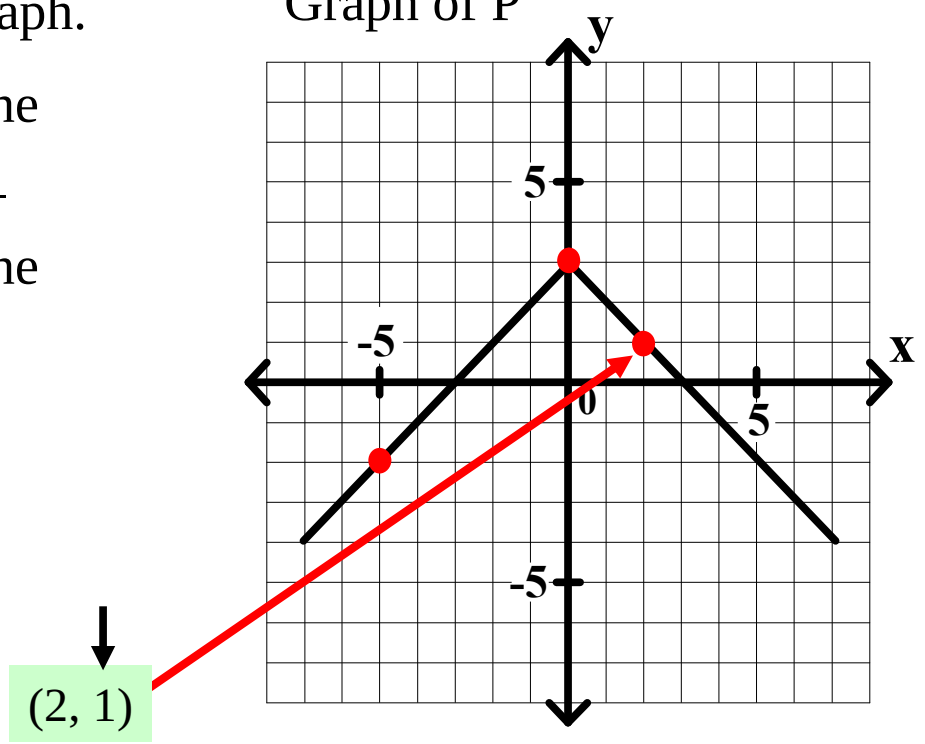


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Evaluate each of the following.

22. P(-5) = **-2**

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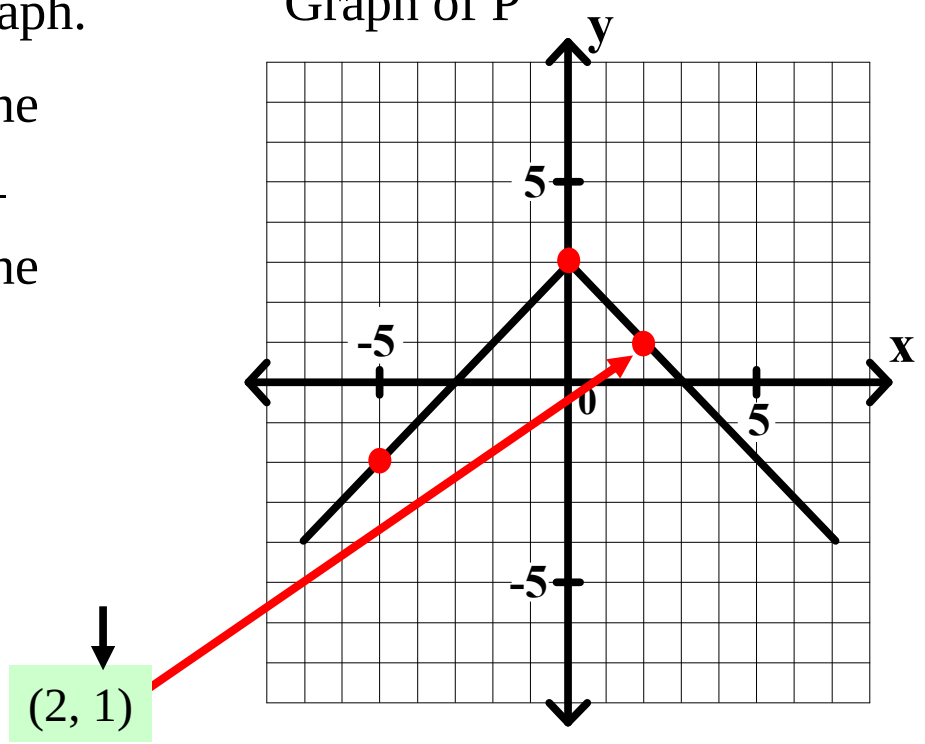


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21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = **-2**

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

24. P(2) = **1**

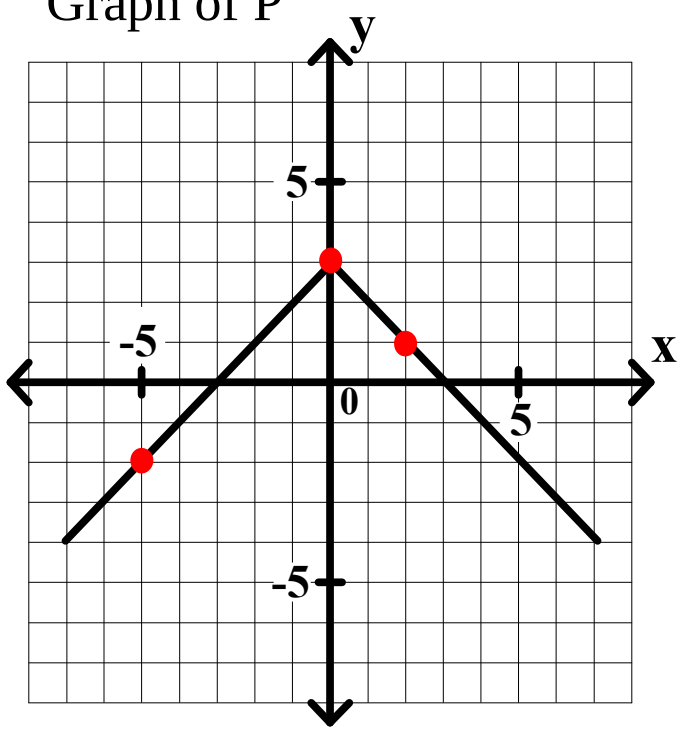
# Algebra I Unit 8 Class Worksheet #2 Functions

**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

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21. Write an inequality to describe the range of P? **$-4 \leq P(x) \leq 3$**

Evaluate each of the following.

22. P(-5) = **-2**

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

24. P(2) = **1**

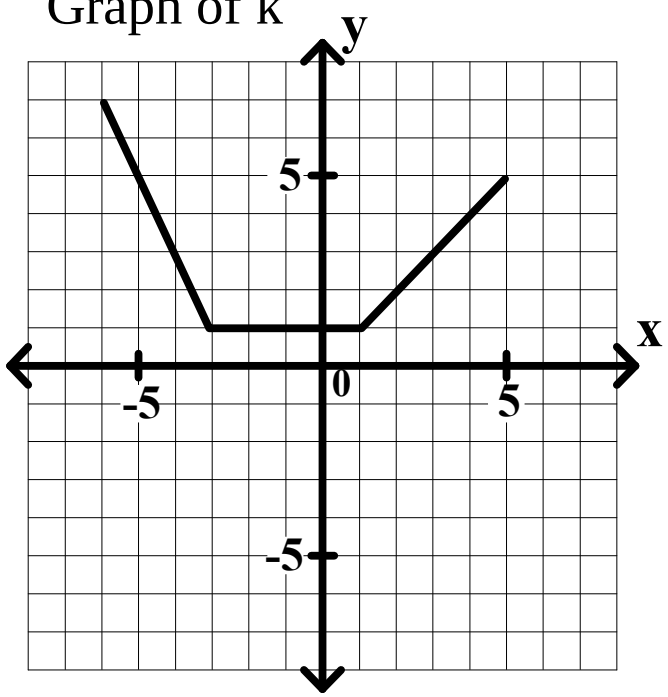
# Algebra I Unit 8 Class Worksheet #2 Functions

**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 k defined by this graph.

Graph of k




25. Write an inequality to describe the domain of k? _____

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

27. k(-5) = _____

28. k(0) = _____

29. k(2) = _____

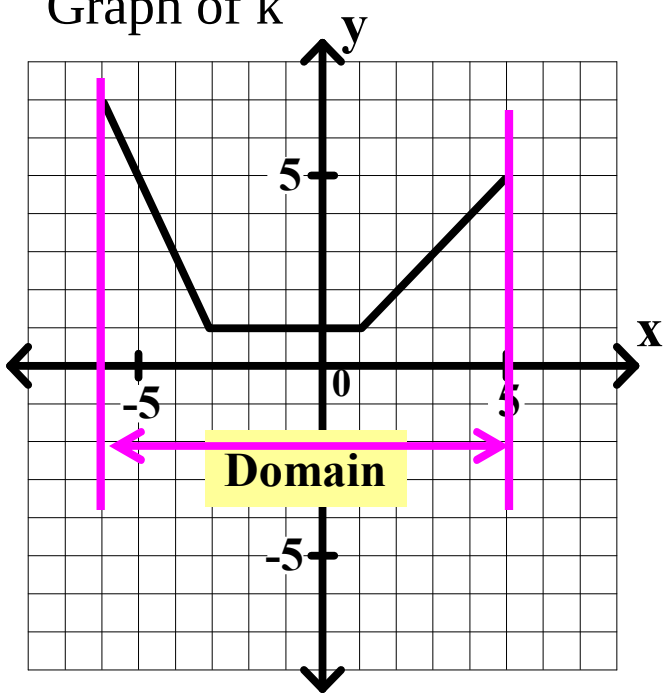
# Algebra I Unit 8 Class Worksheet #2 Functions

**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 k defined by this graph.

Graph of k




25. Write an inequality to describe the domain of k? _____

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

27. k(-5) = _____

28. k(0) = _____

29. k(2) = _____

# Algebra I Unit 8 Class Worksheet #2 Functions

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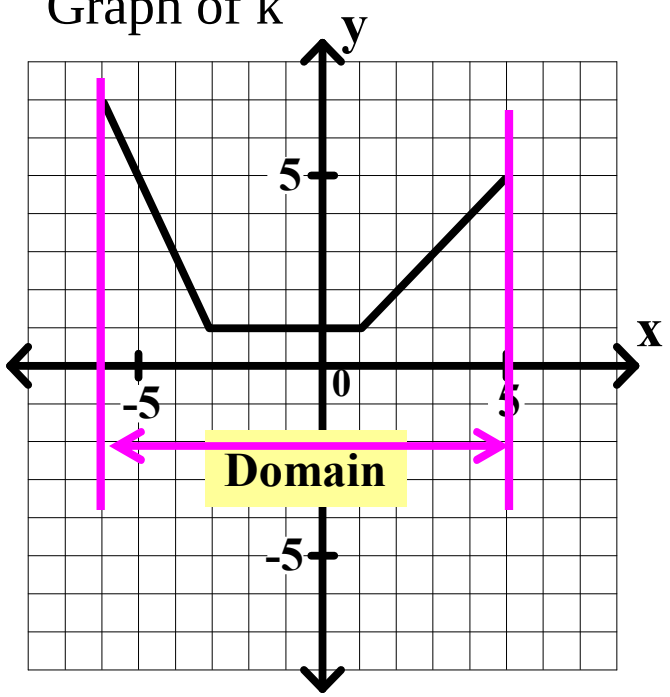
Given the function k defined by this graph.

Graph of k




25. Write an inequality to describe the domain of k? **-6** _____

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

27. k(-5) = _____

28. k(0) = _____

29. k(2) = _____

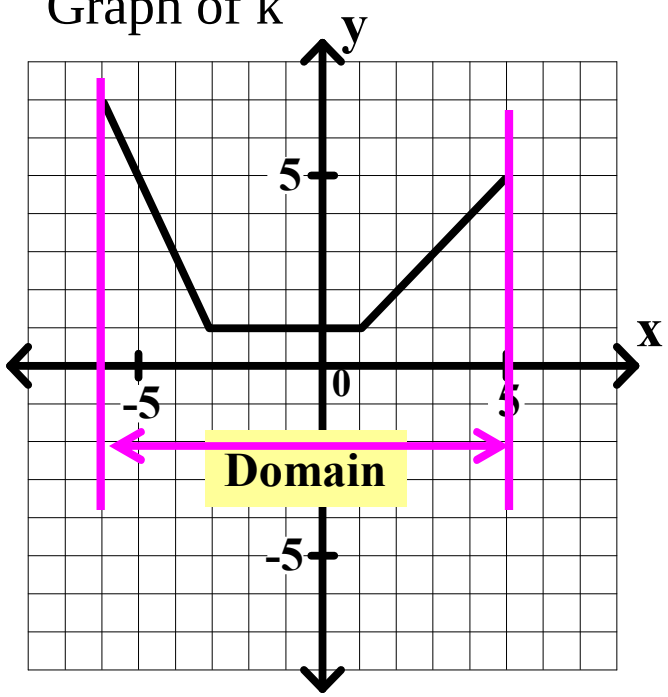
# Algebra I Unit 8 Class Worksheet #2 Functions

**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 the function k defined by this graph.

Graph of k




25. Write an inequality to describe the domain of k? **-6 ≤** _____

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

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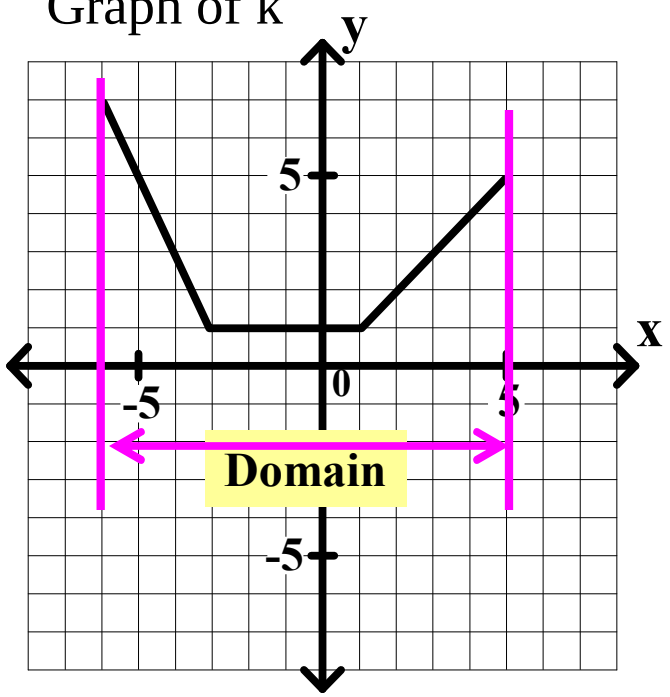


25. Write an inequality to describe the domain of k? **$-6 \leq x$**

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

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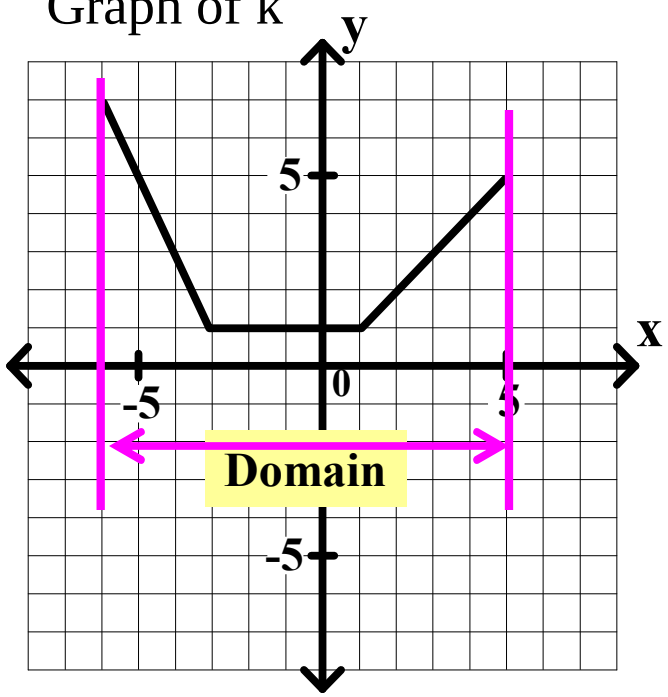

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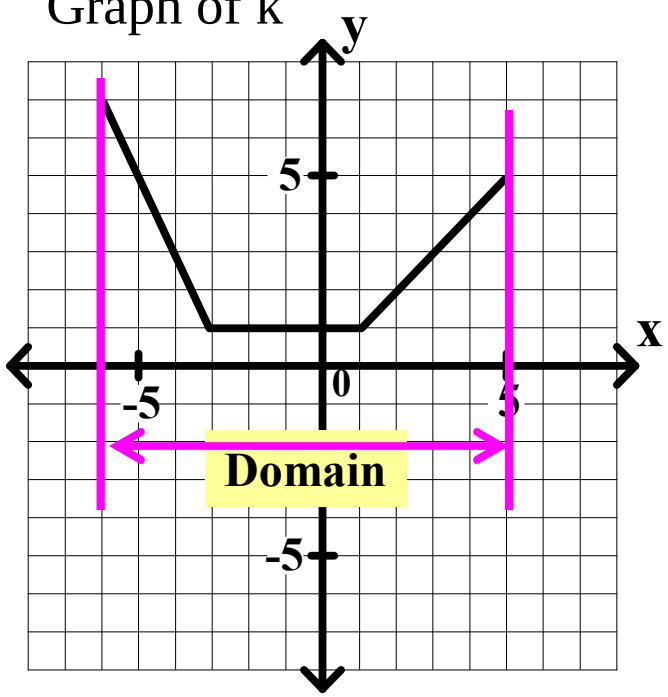


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

27. k(-5) = _____

28. k(0) = _____

29. k(2) = _____

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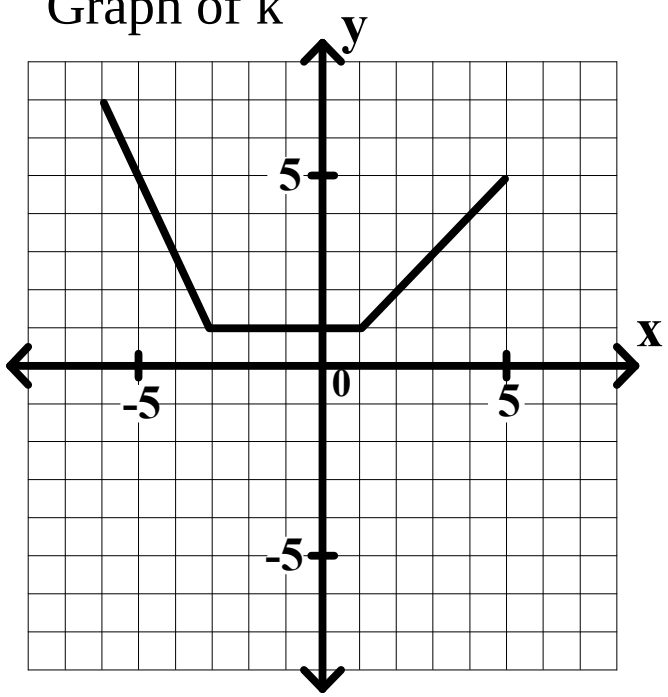


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? _____

Evaluate each of the following.

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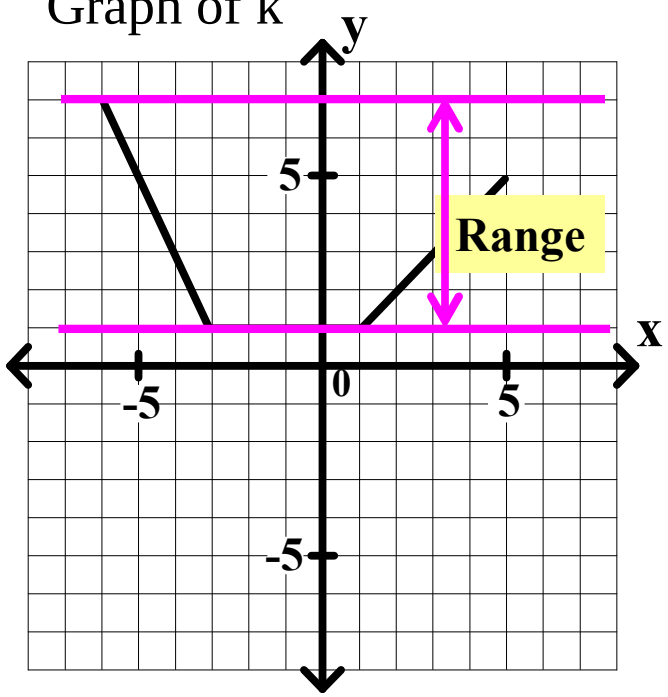


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

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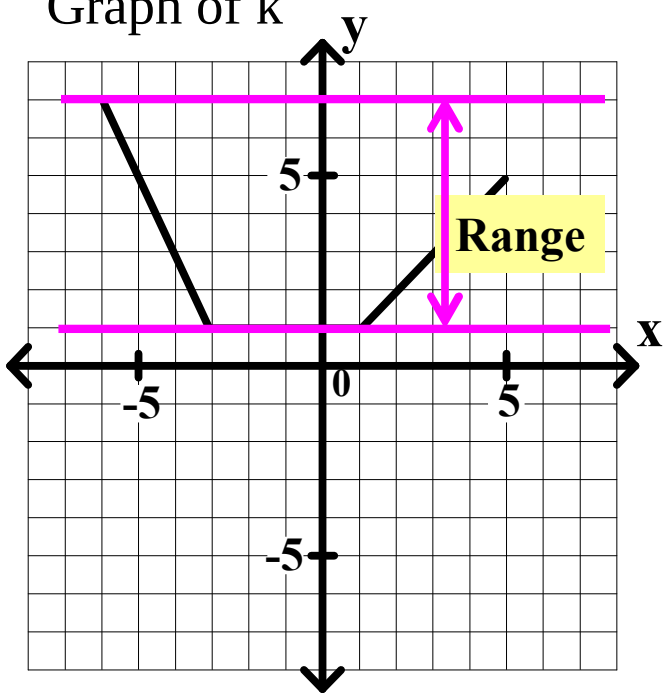


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? **1**

Evaluate each of the following.

27. k(-5) = _____

28. k(0) = _____

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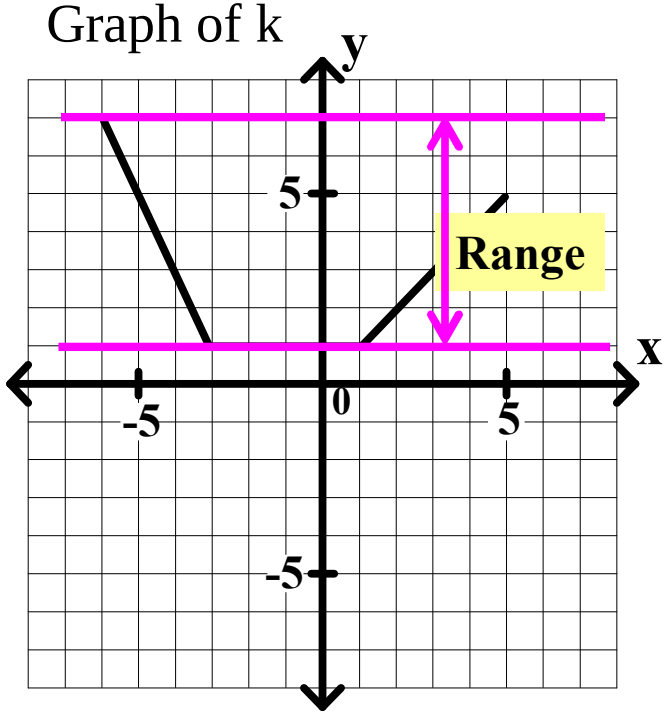


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? **$1 \leq$** _____

Evaluate each of the following.

27. k(-5) = _____

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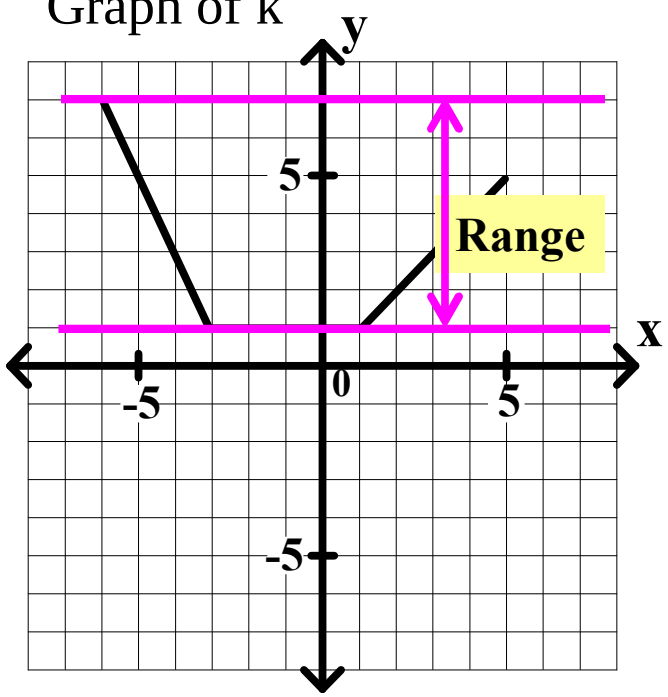


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? **$1 \leq k(x)$**

Evaluate each of the following.

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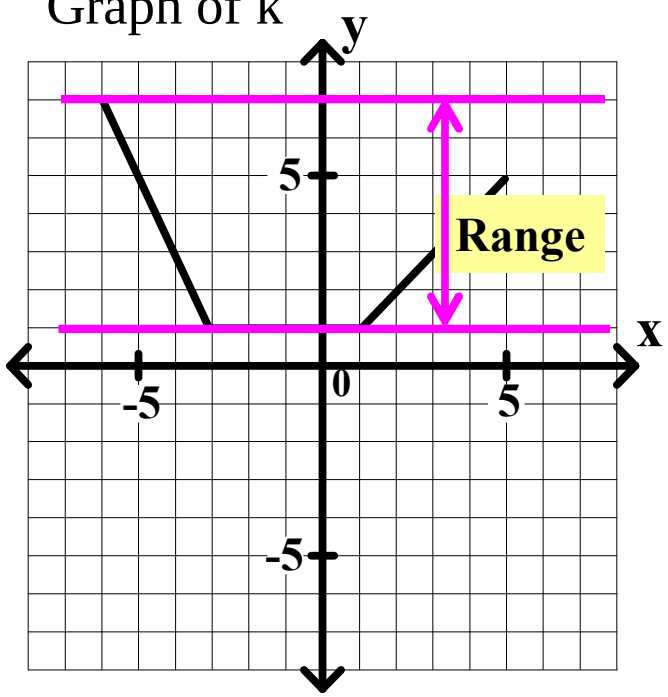


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? **$1 \leq k(x) \leq$**

Evaluate each of the following.

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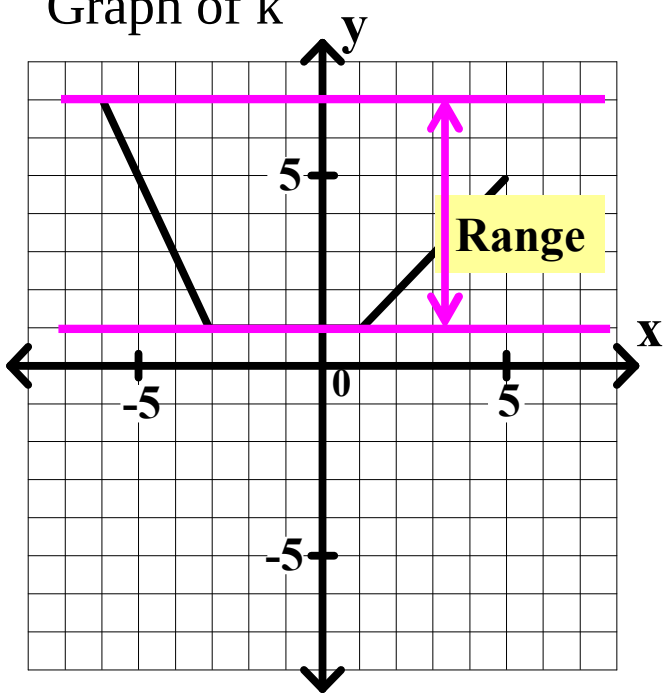


25. Write an inequality to describe the domain of k? **$-6 \leq x \leq 5$**

26. Write an inequality to describe the range of k? **$1 \leq k(x) \leq 7$**

Evaluate each of the following.

27. k(-5) = _____

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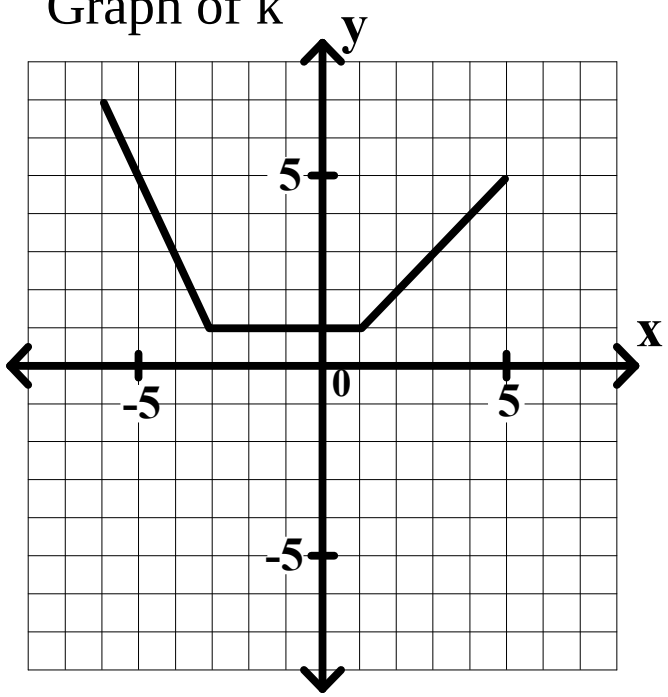


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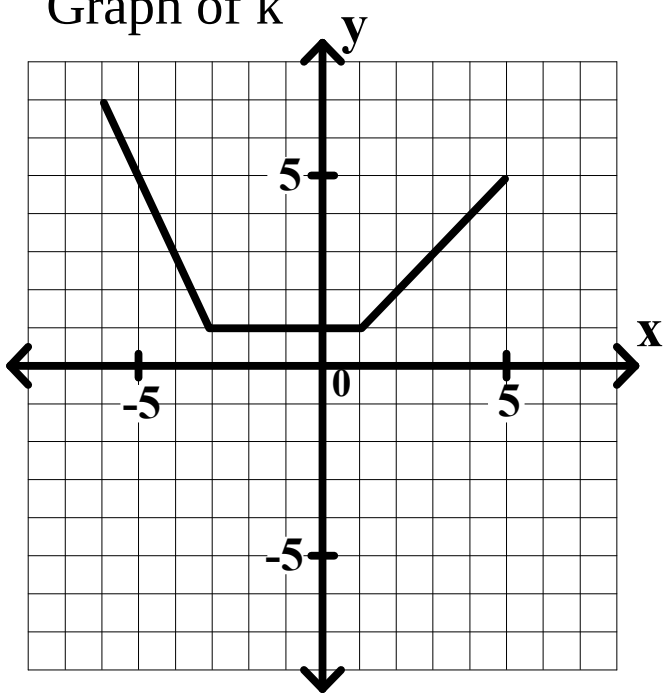


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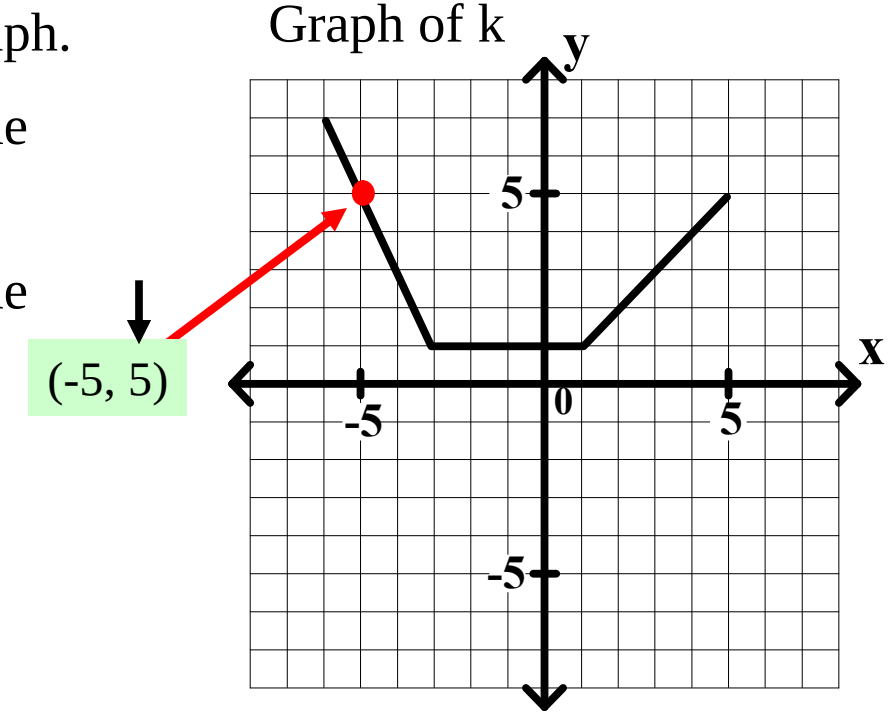


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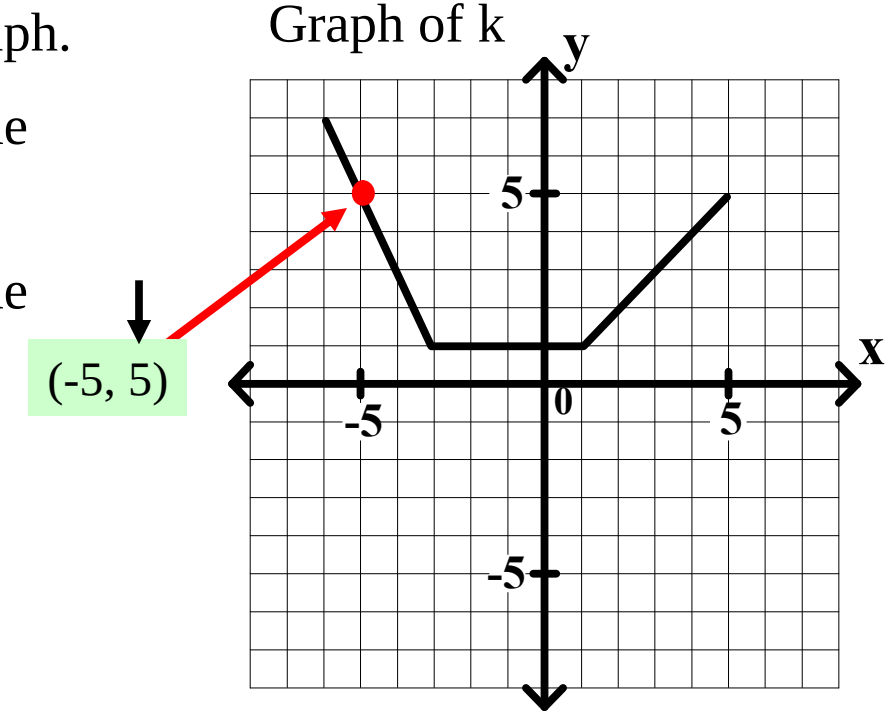


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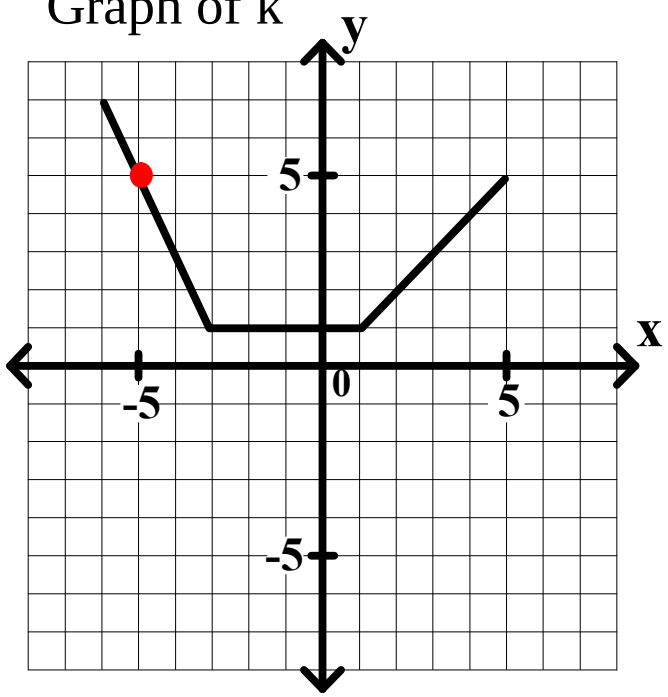


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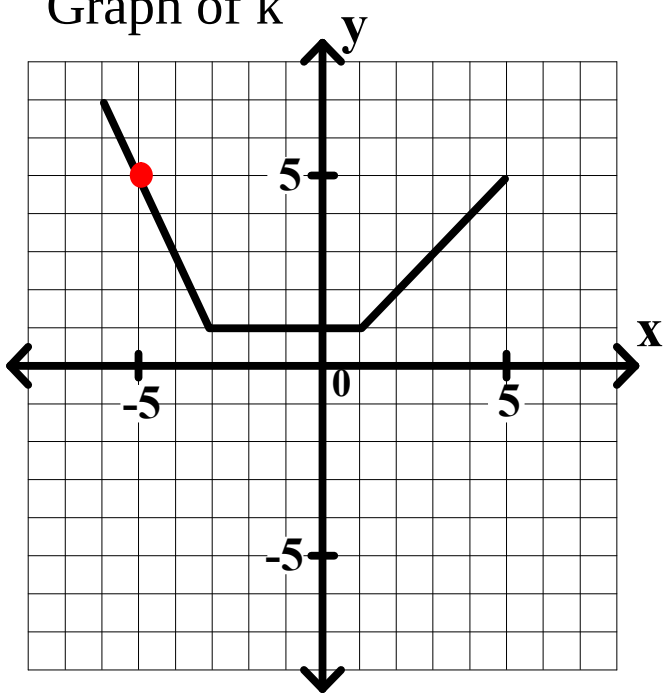


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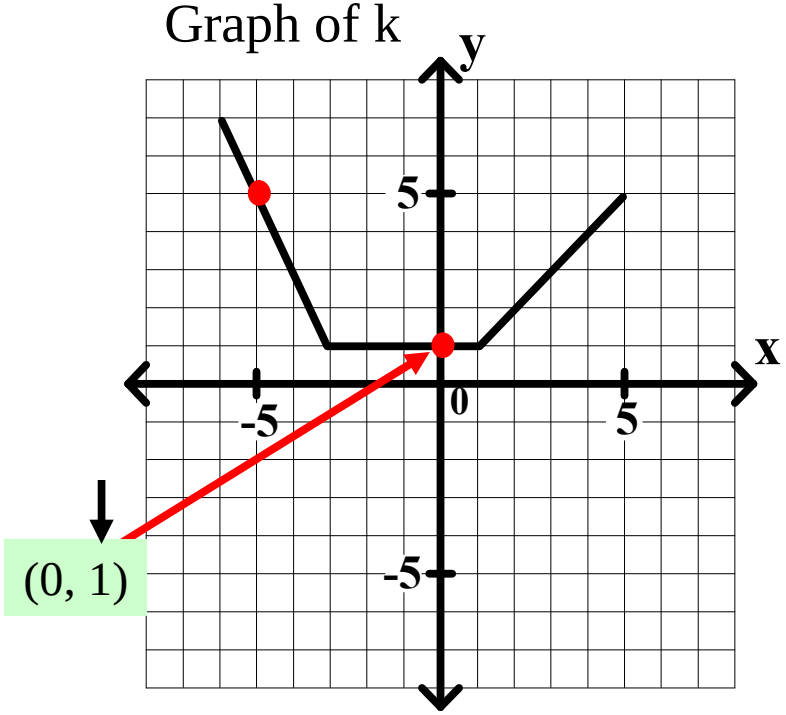


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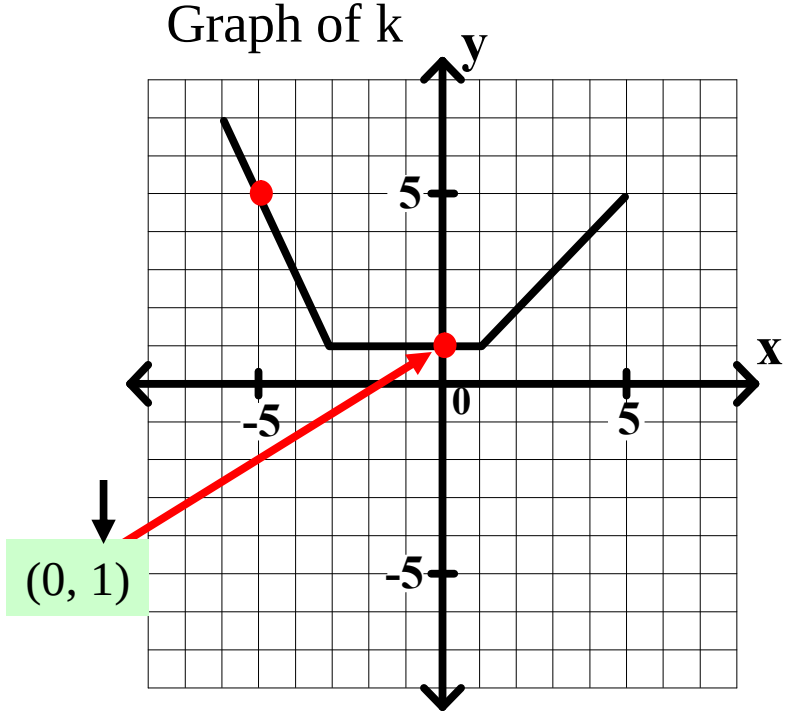


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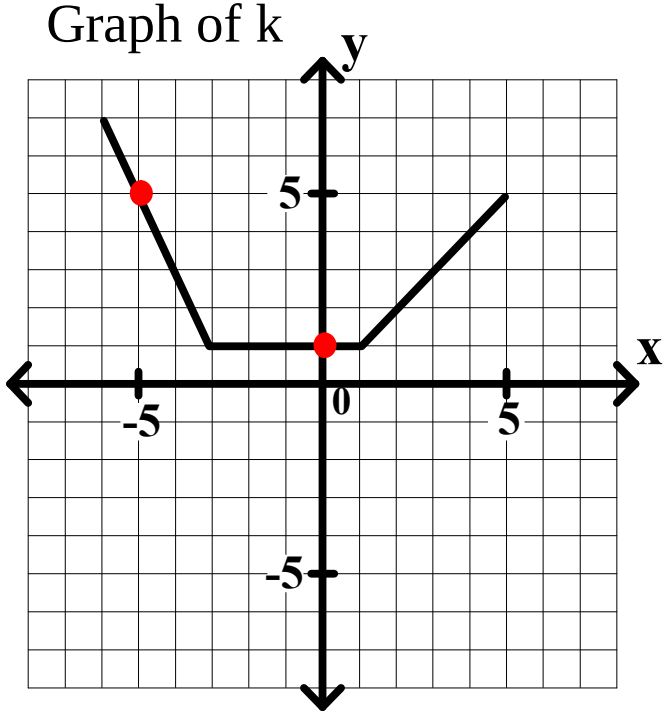


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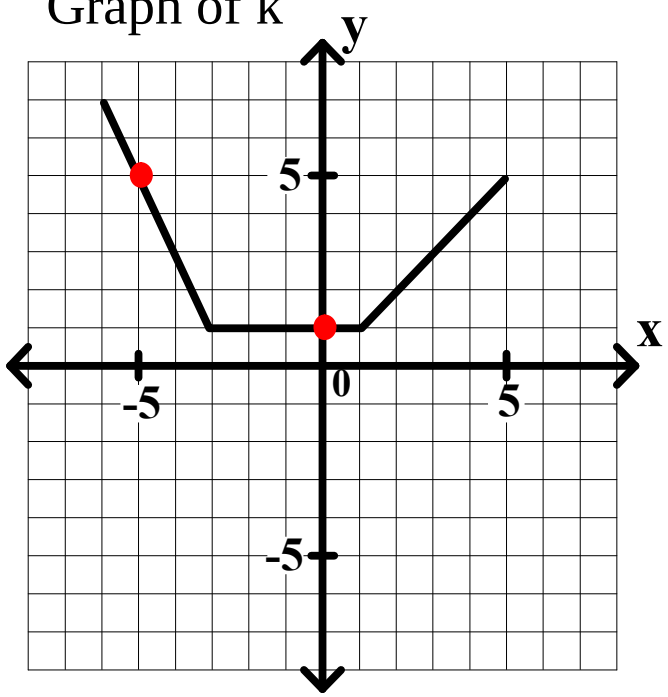


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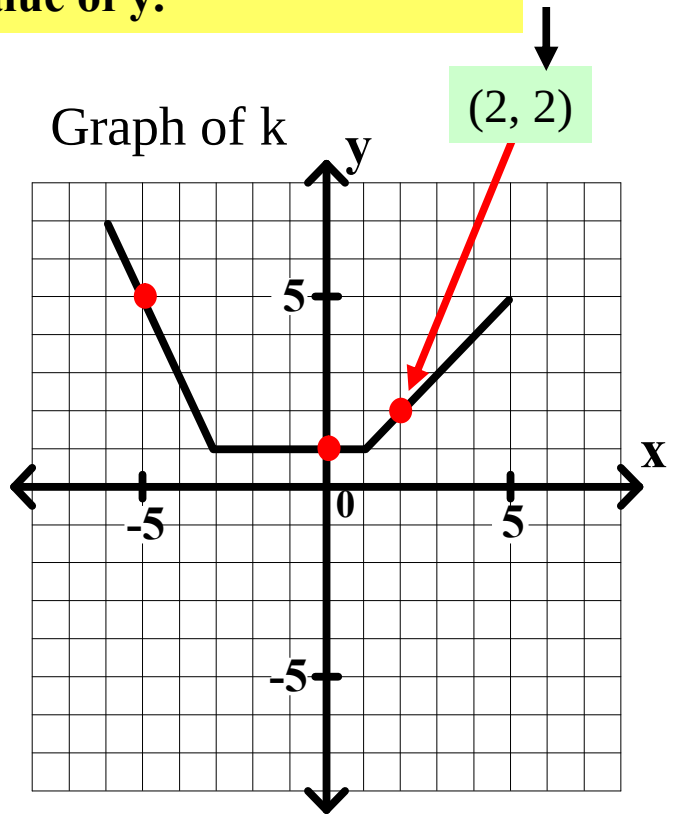


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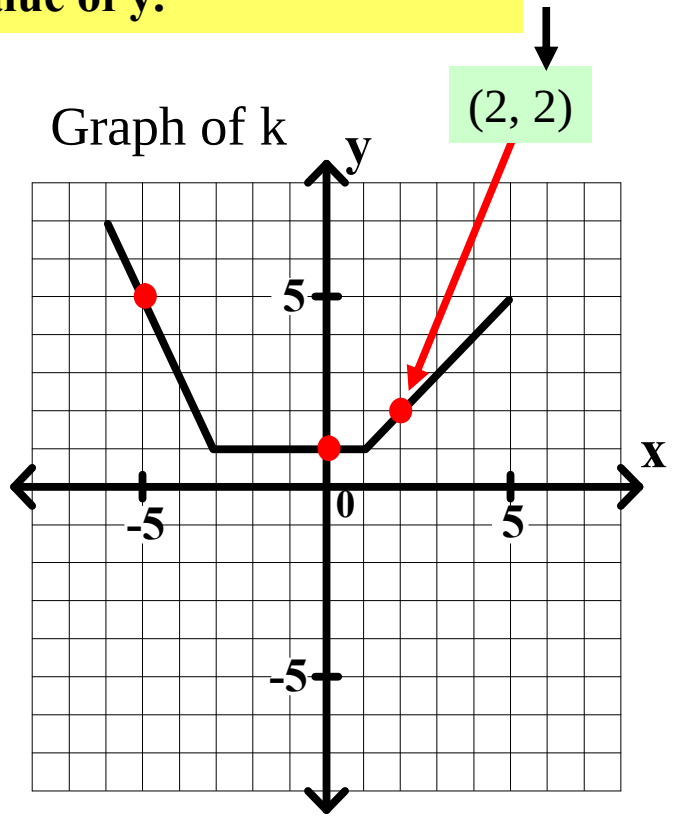


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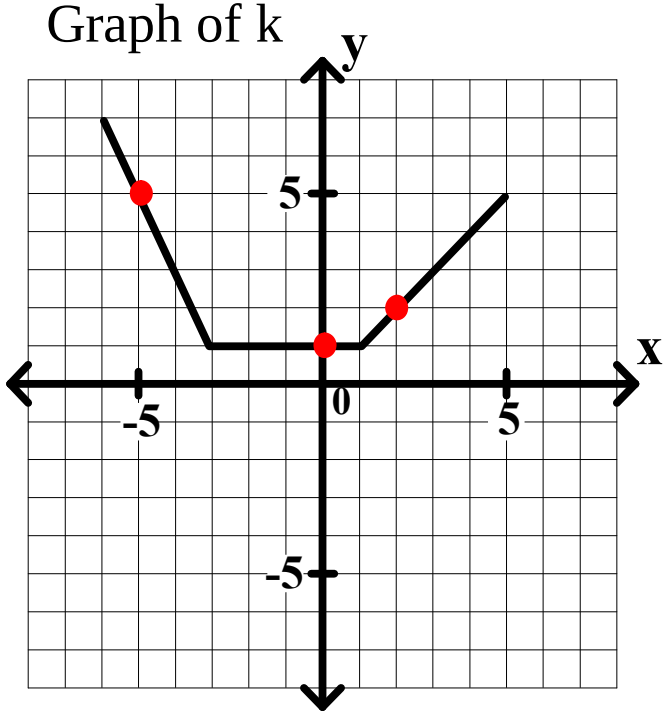


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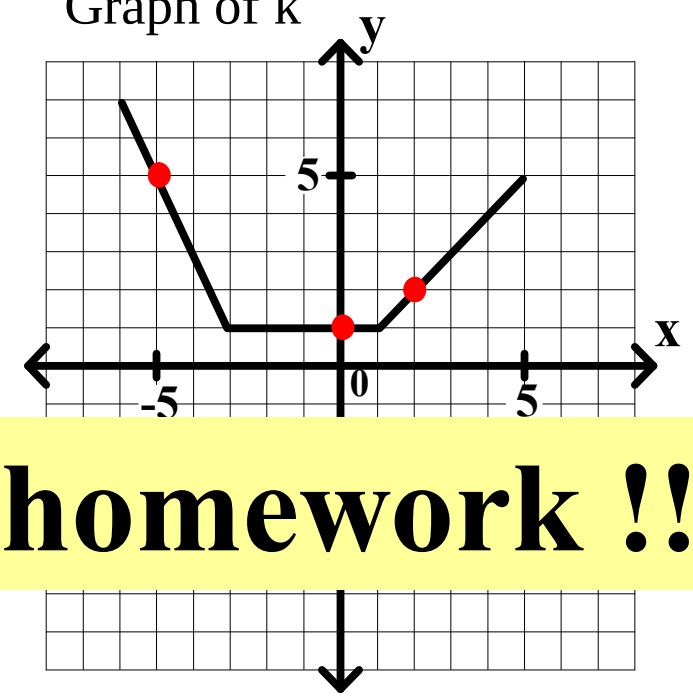


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**Good luck on your homework !!**

28. k(0) = **1**

29. k(2) = **2**