General Algebra II
Lesson #2 Unit 6
Class Worksheet #2
For Worksheets #2 & #3

General Algebra II Unit 6 CWS #2

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Relation:

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Function:

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Function: A function is a relation

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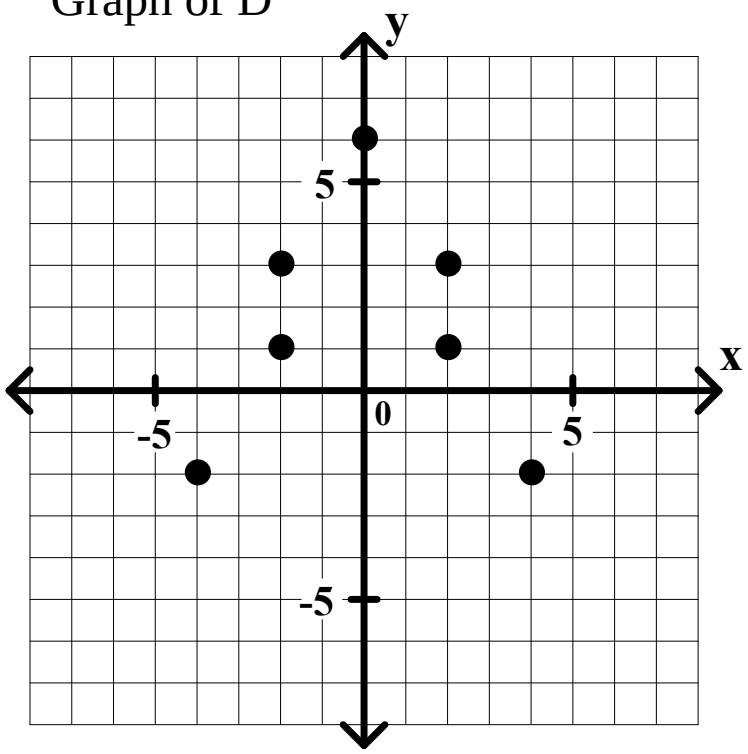
Graph of D



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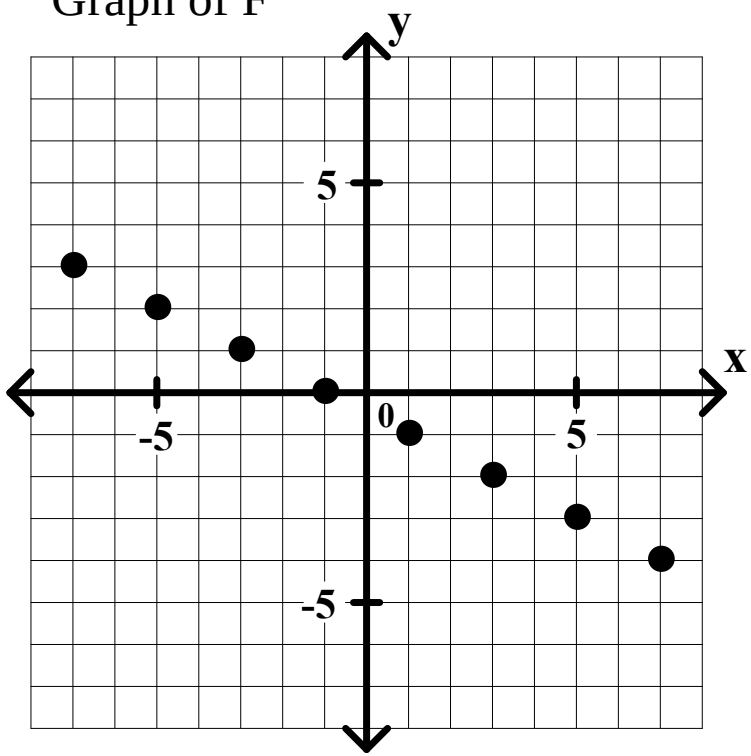

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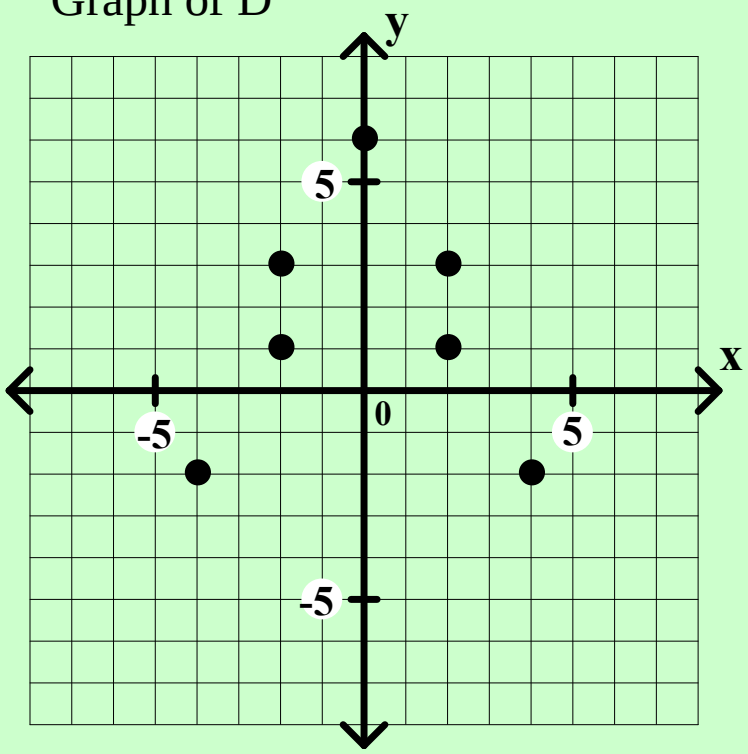

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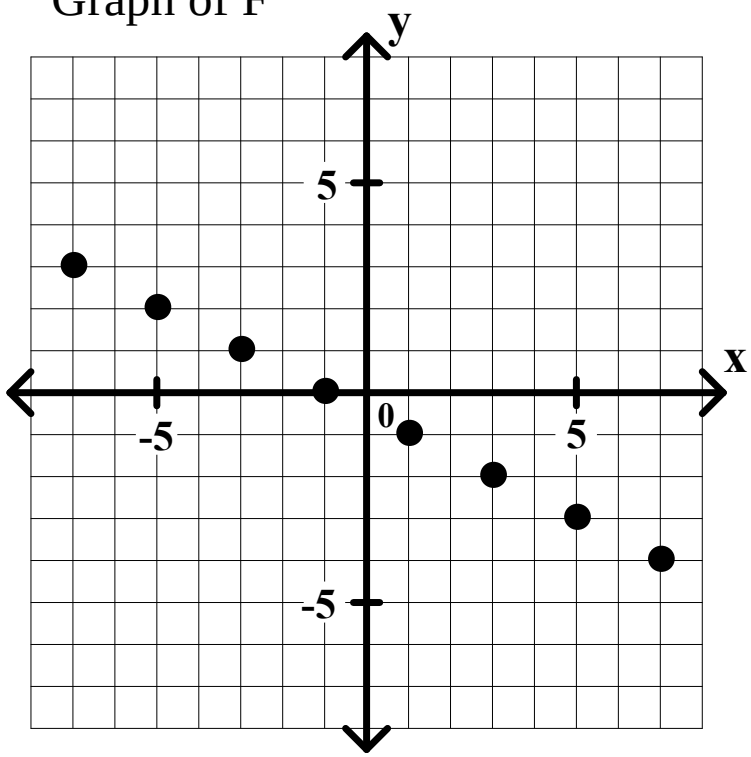

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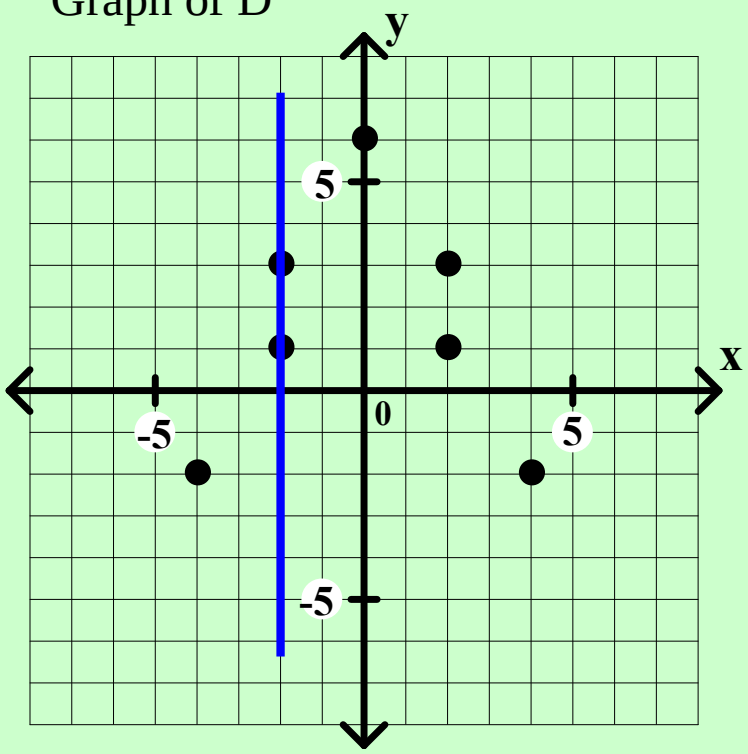

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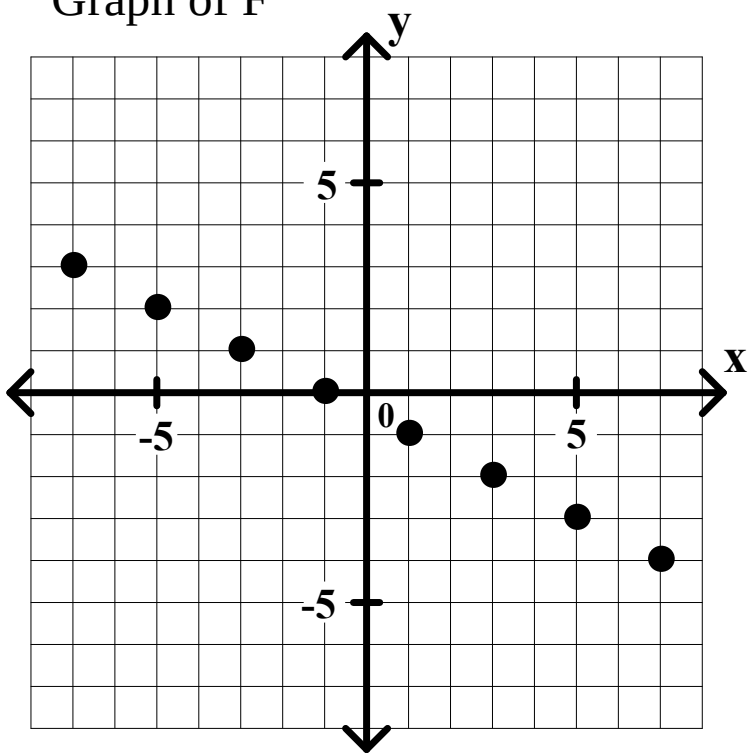

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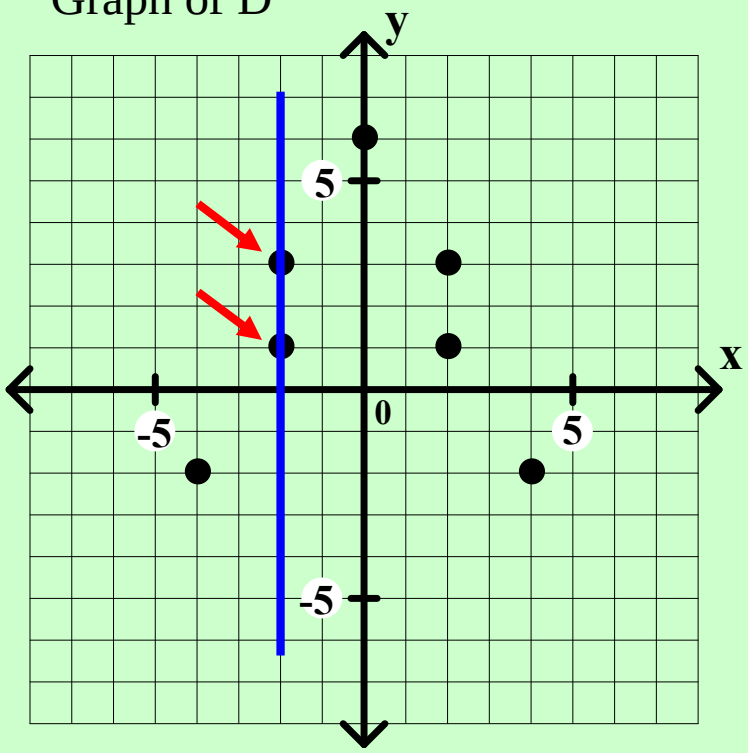

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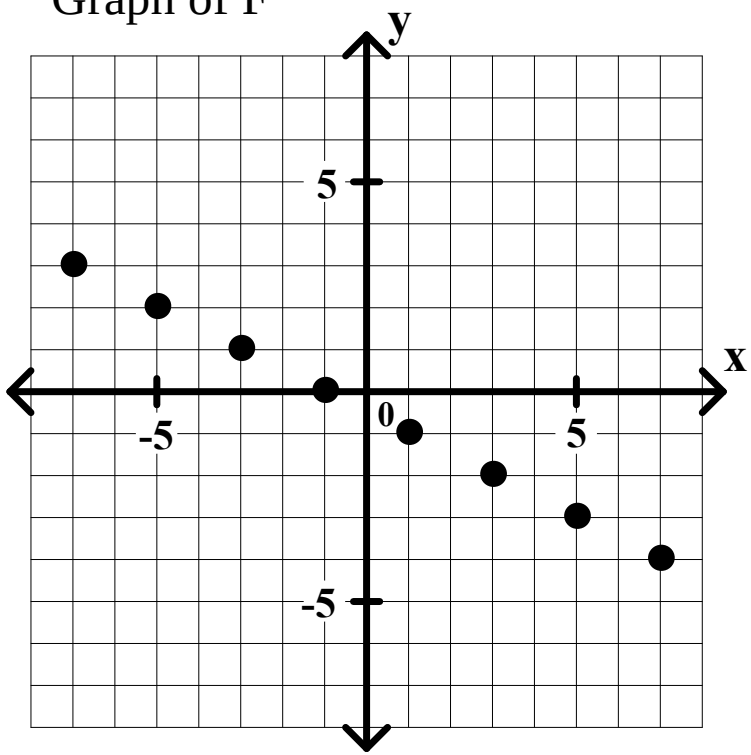

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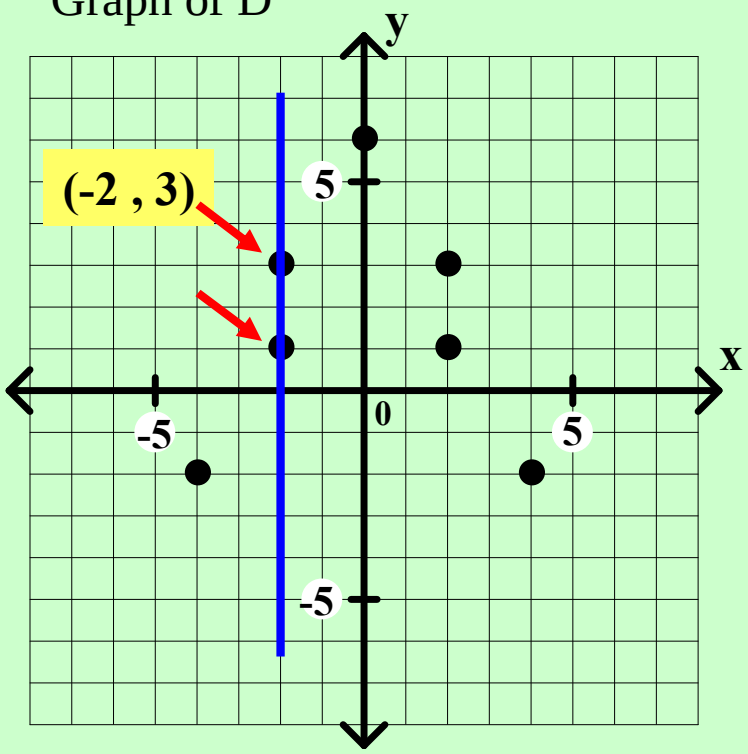

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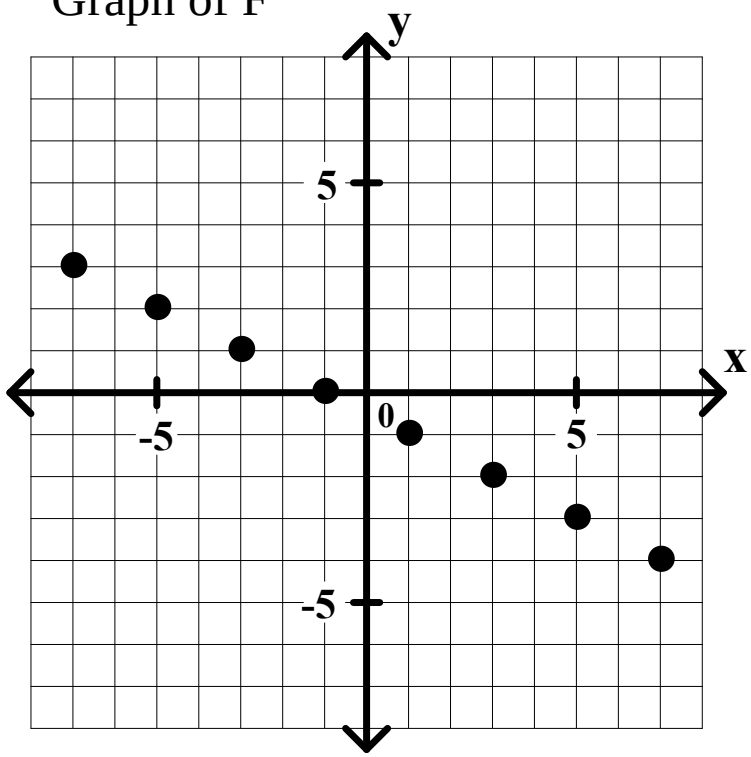

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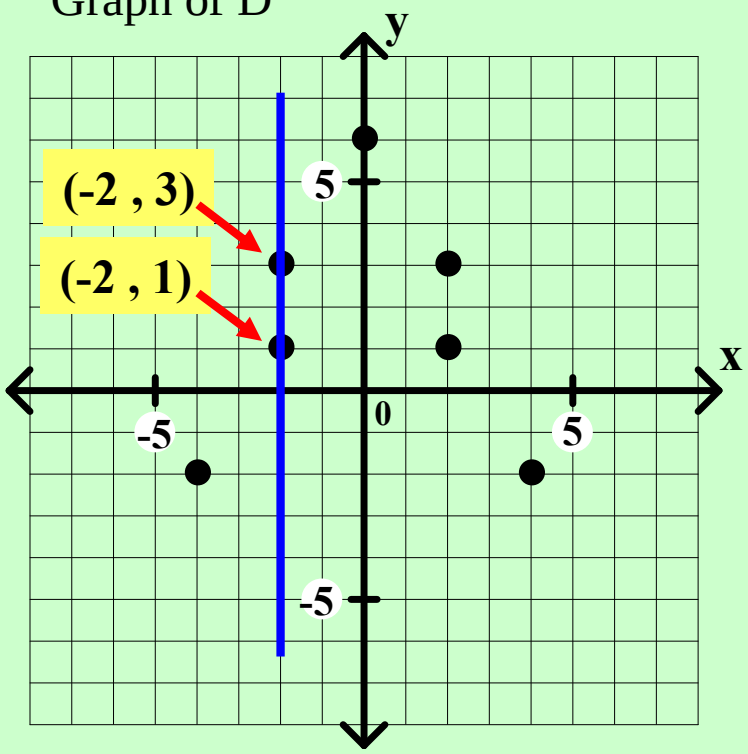

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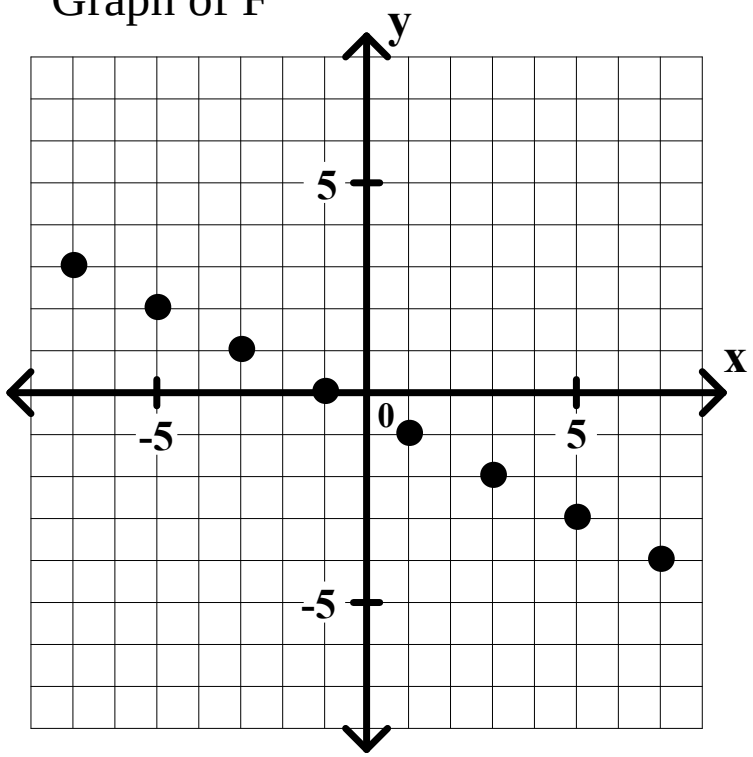

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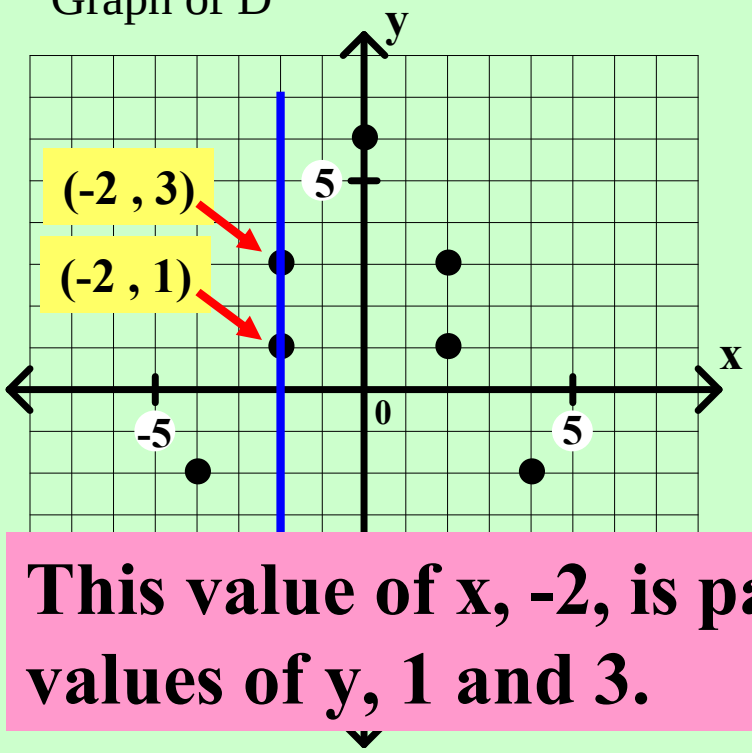

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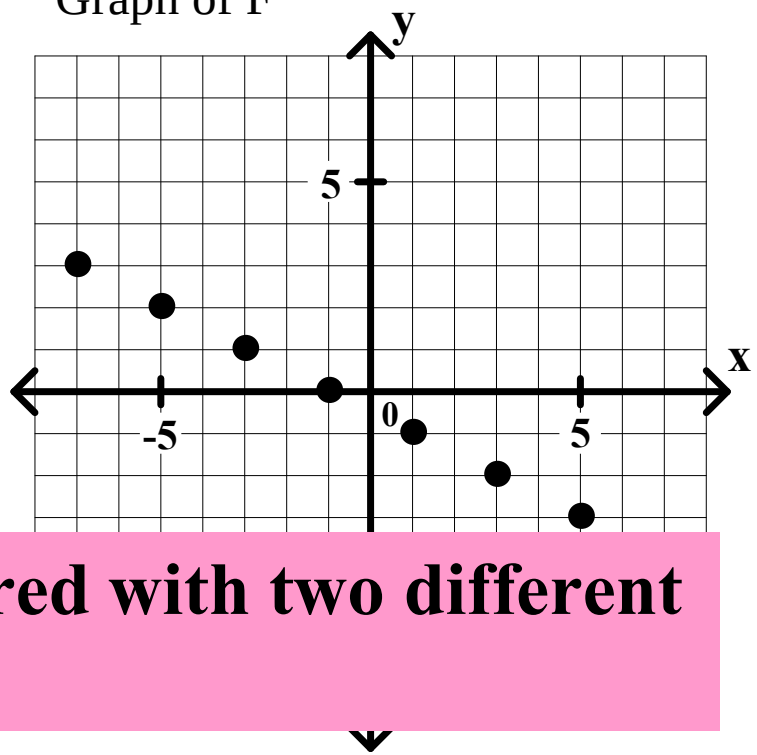

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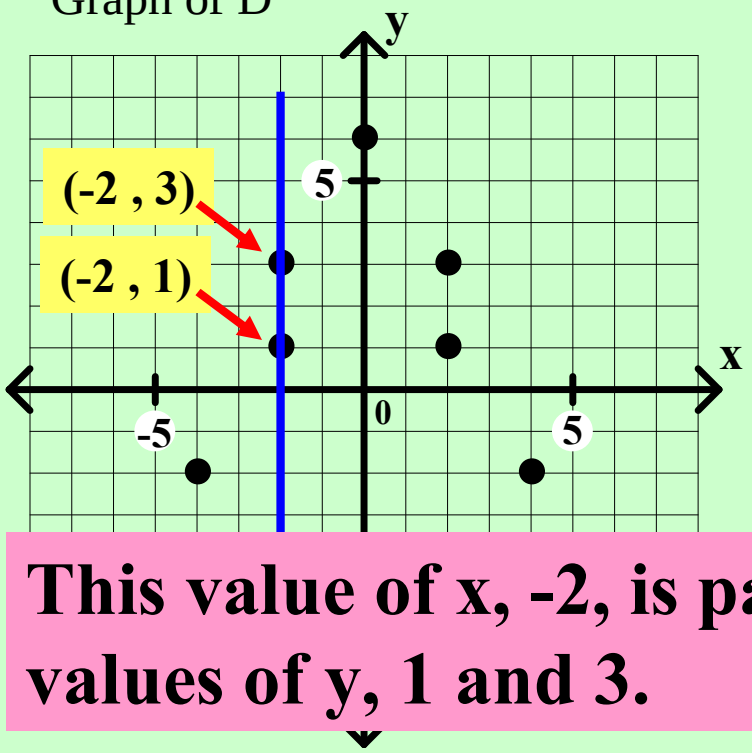

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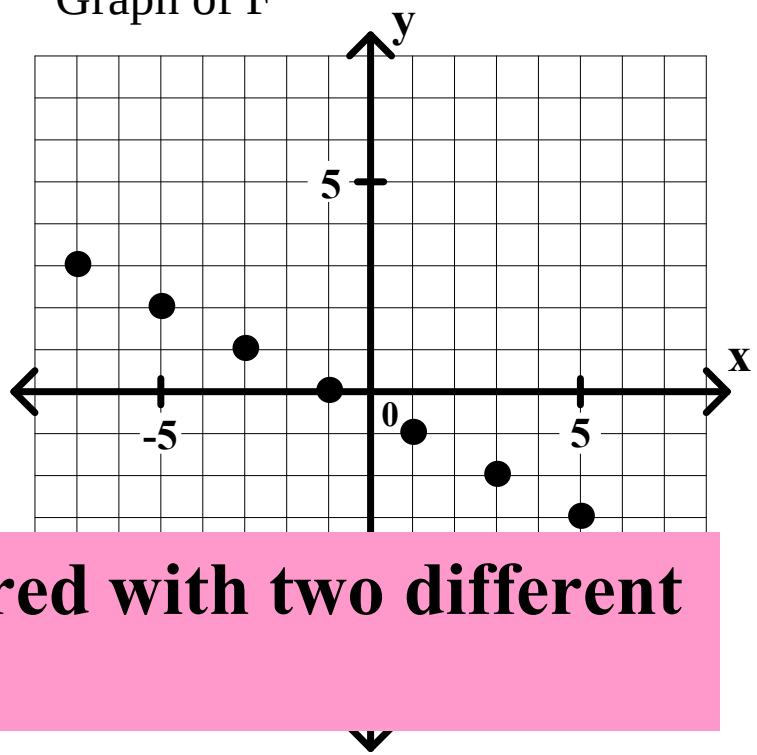

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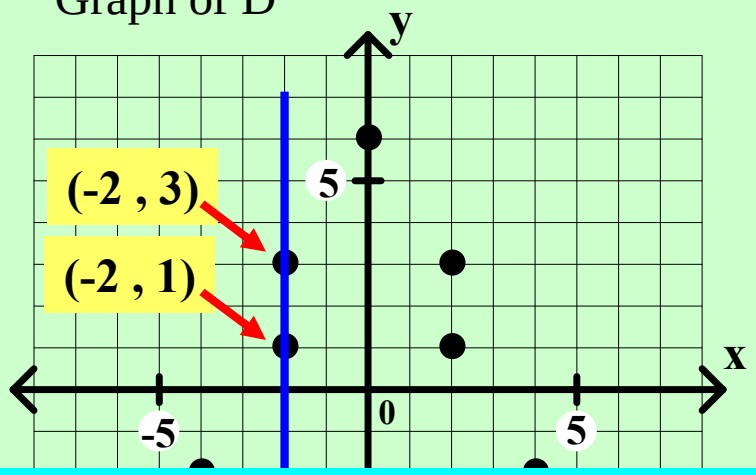

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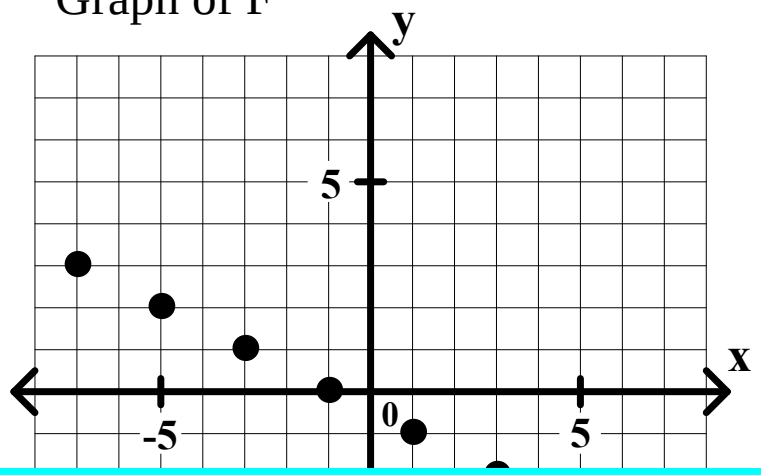

The vertical line test: If any vertical line intersects the graph of a relation in more than one point, then the relation is not a function.

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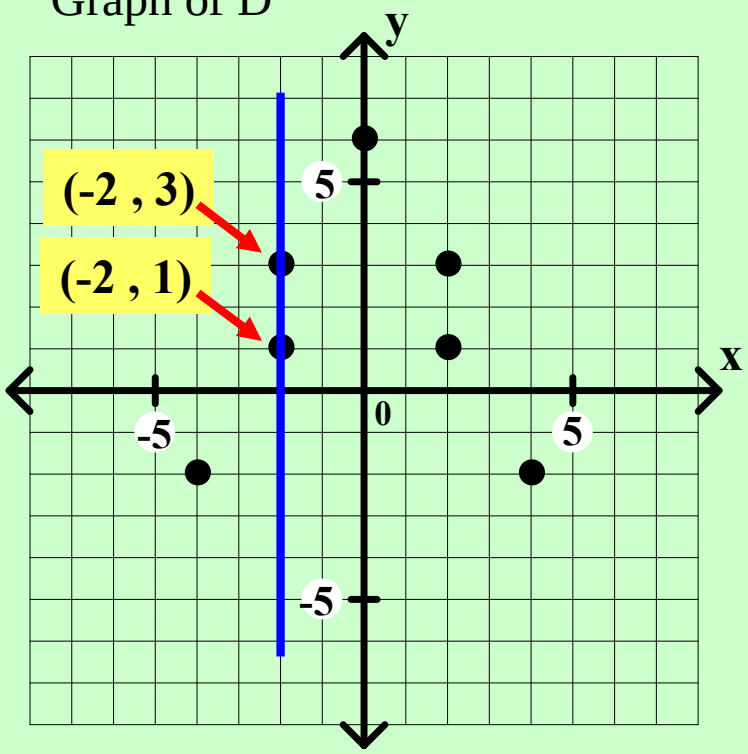

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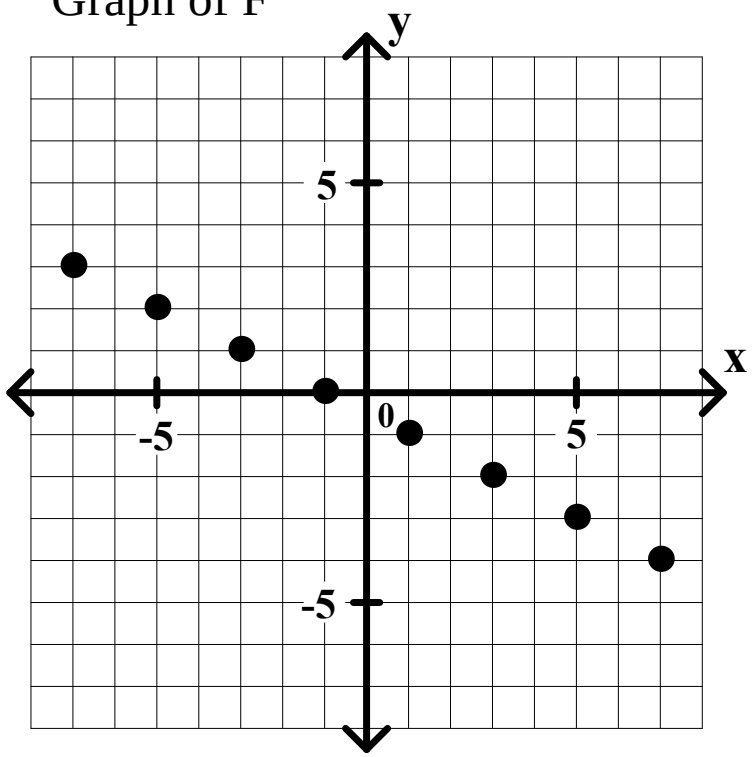

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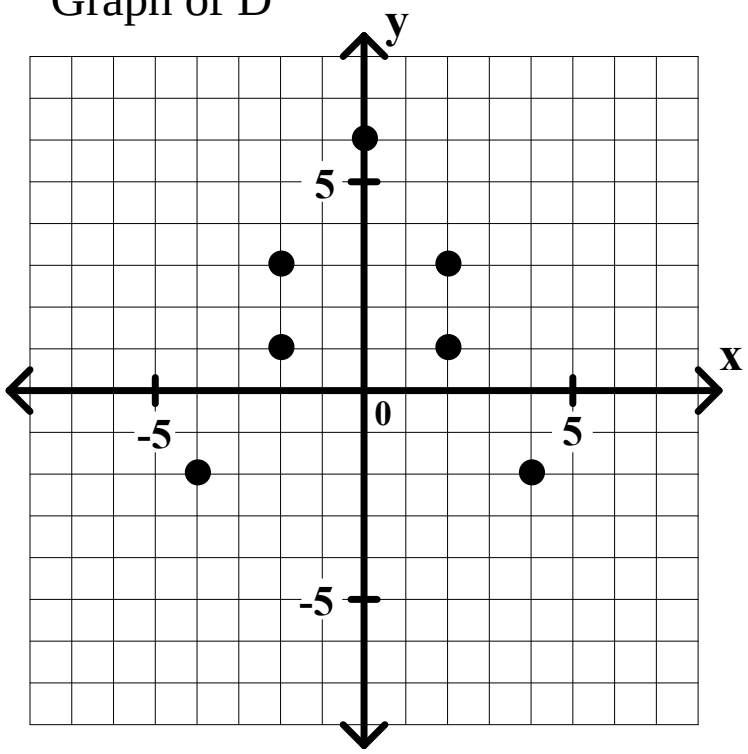

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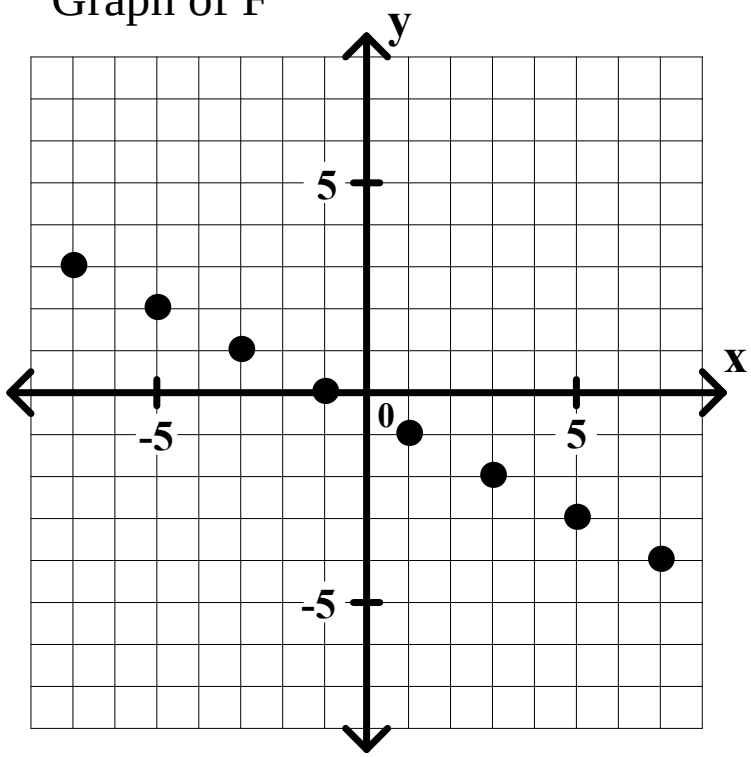

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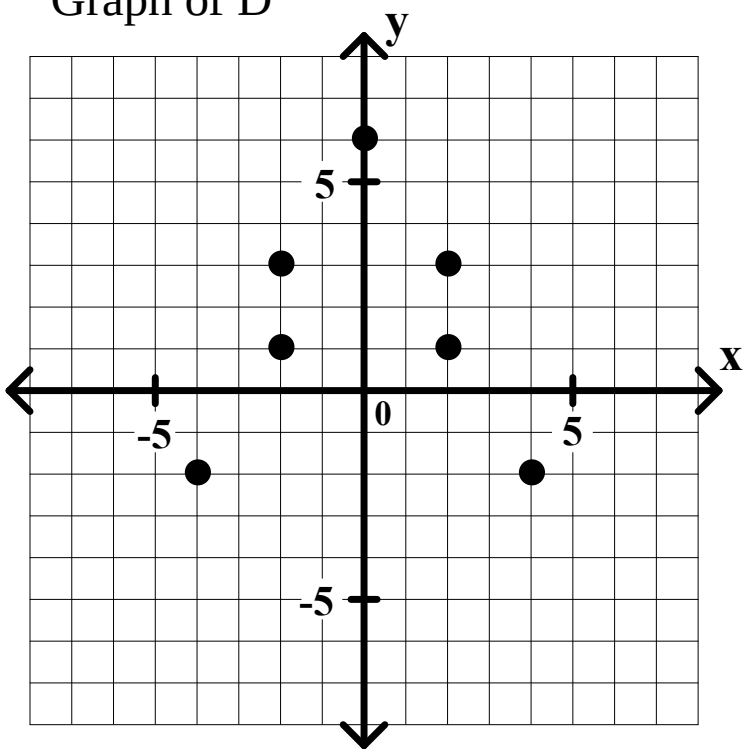
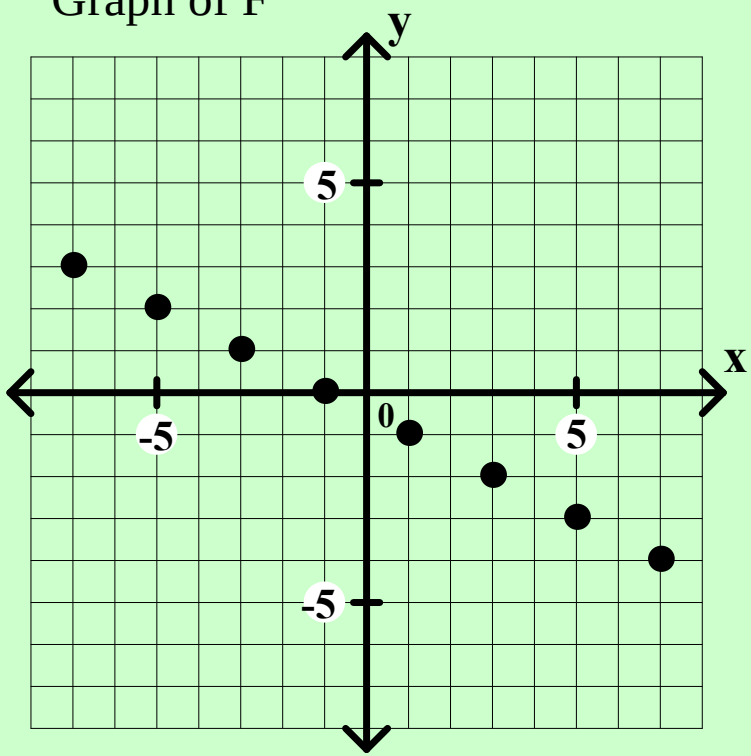


_____ 5. relation F

Graph of F



General Algebra II Unit 6 CWS #2

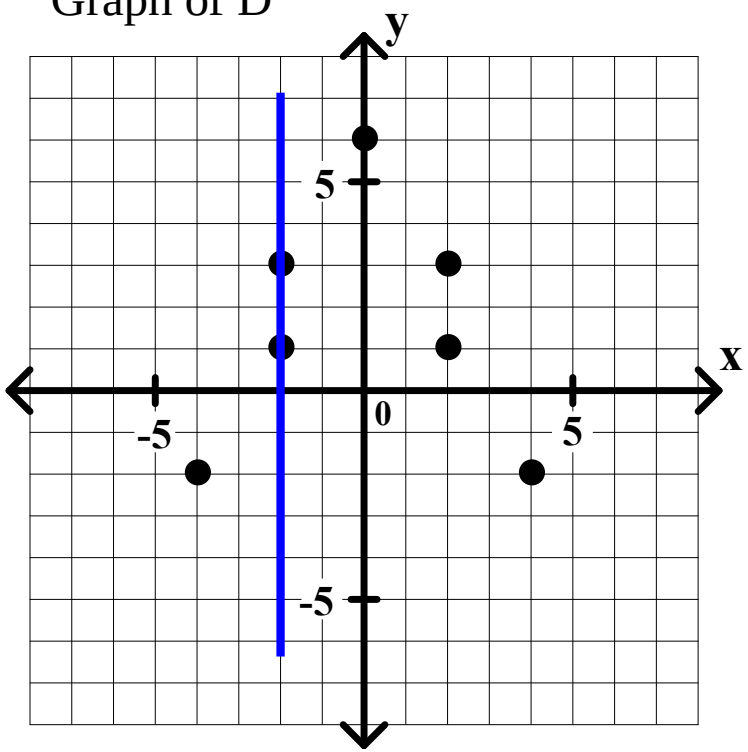
Relation: A relation is a set of ordered pairs.

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

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

no **4. relation D**

Graph of D



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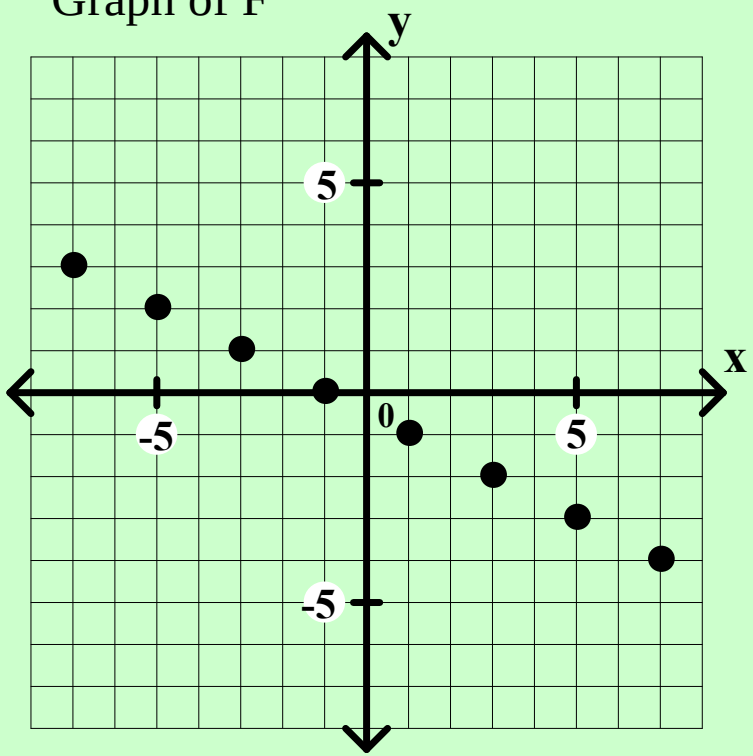
Graph of F



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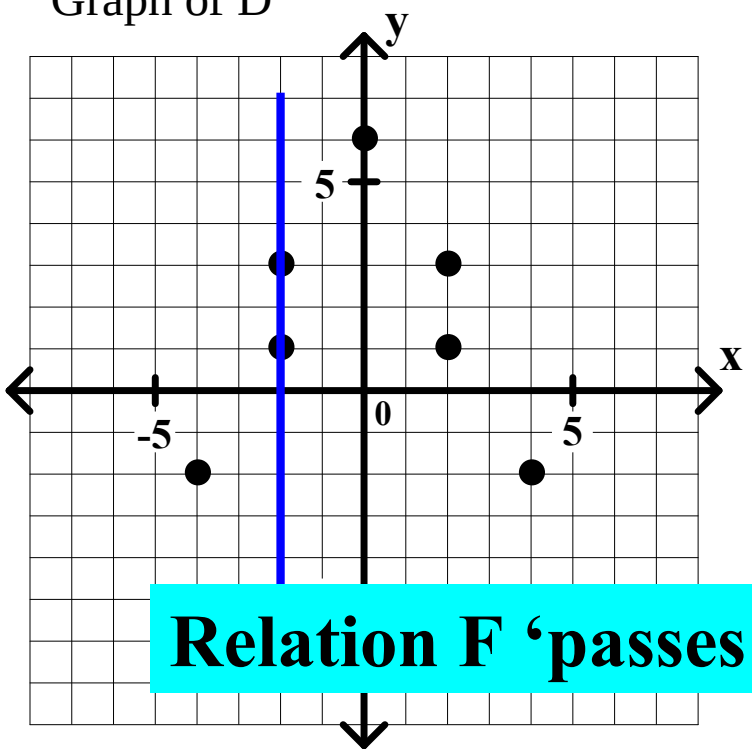

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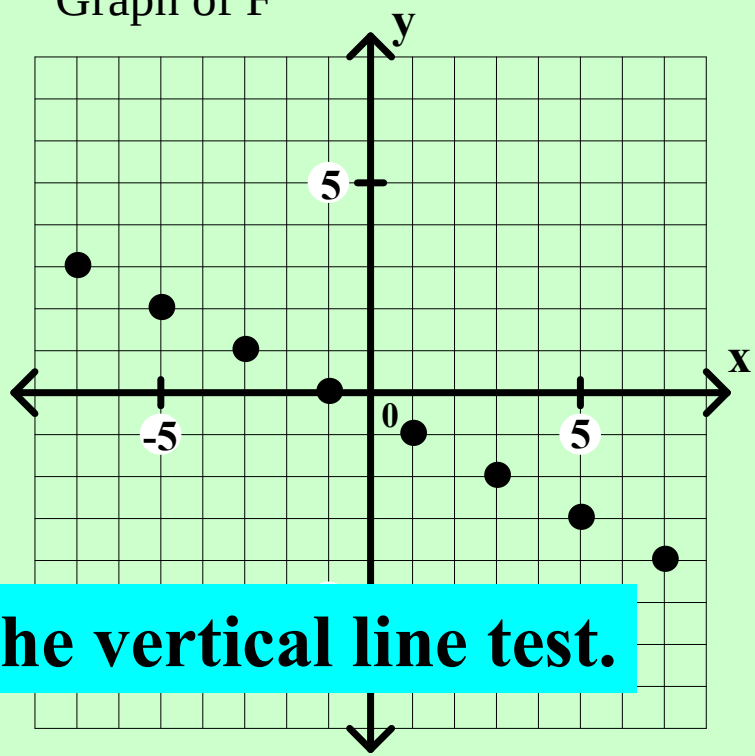

Relation F 'passes' the vertical line test.

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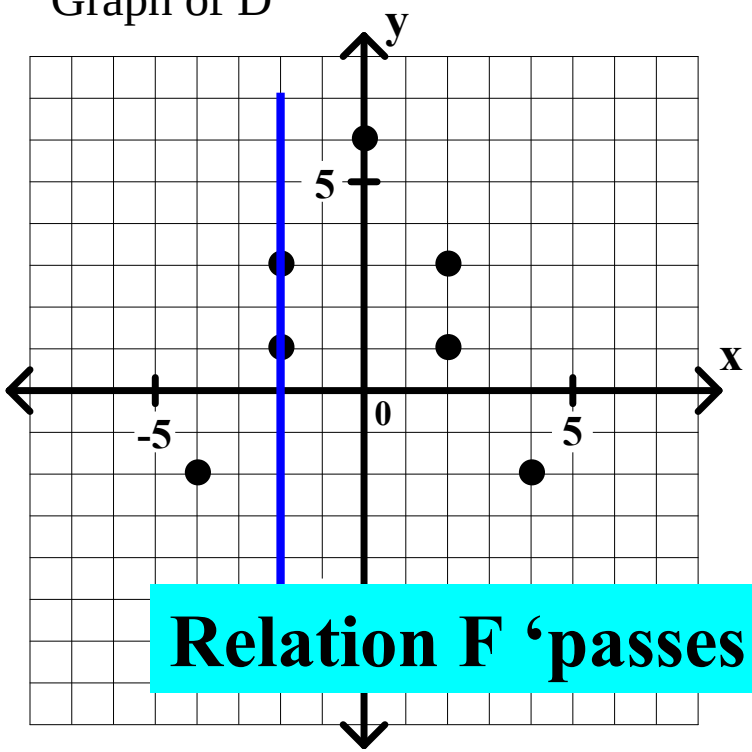
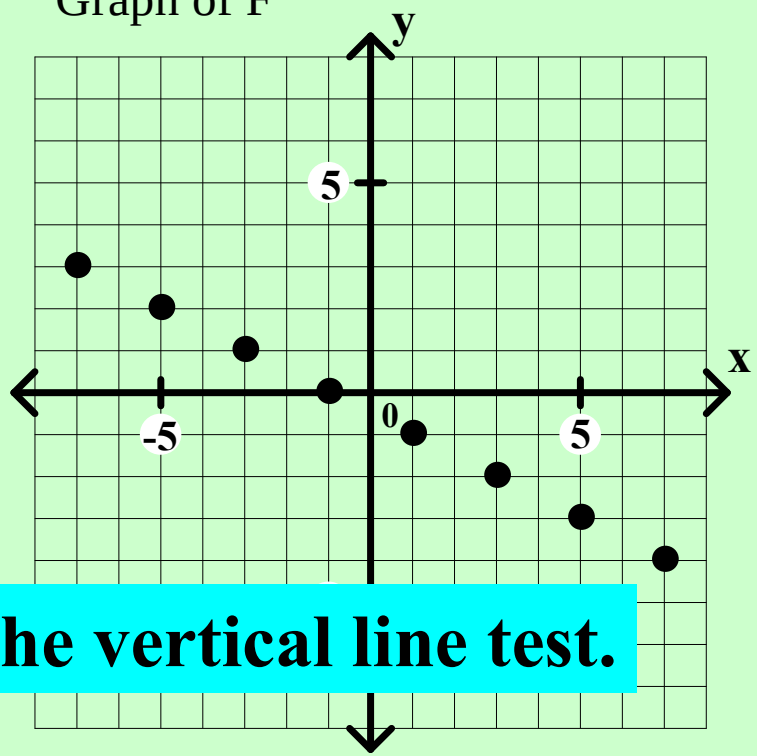


yes **5. relation F**

Graph of F



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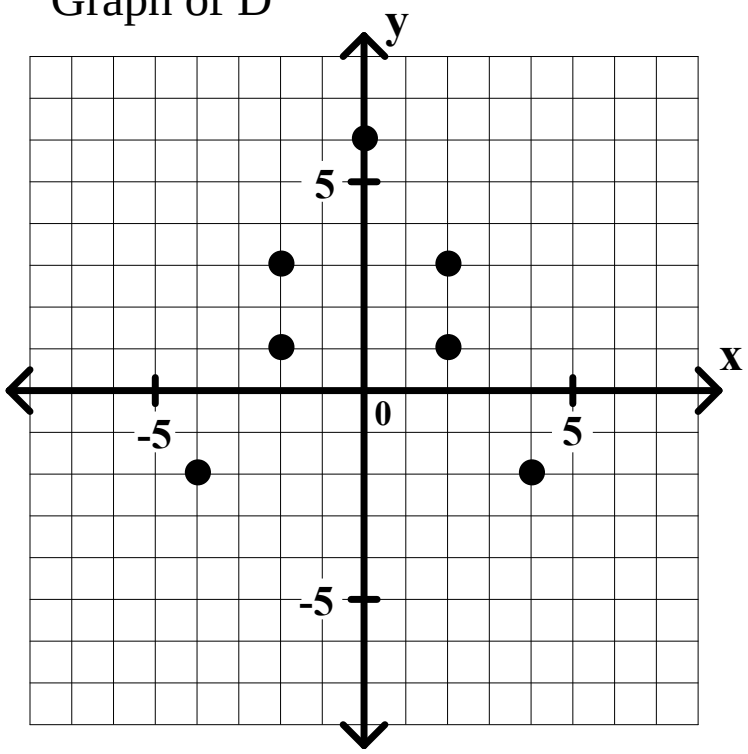

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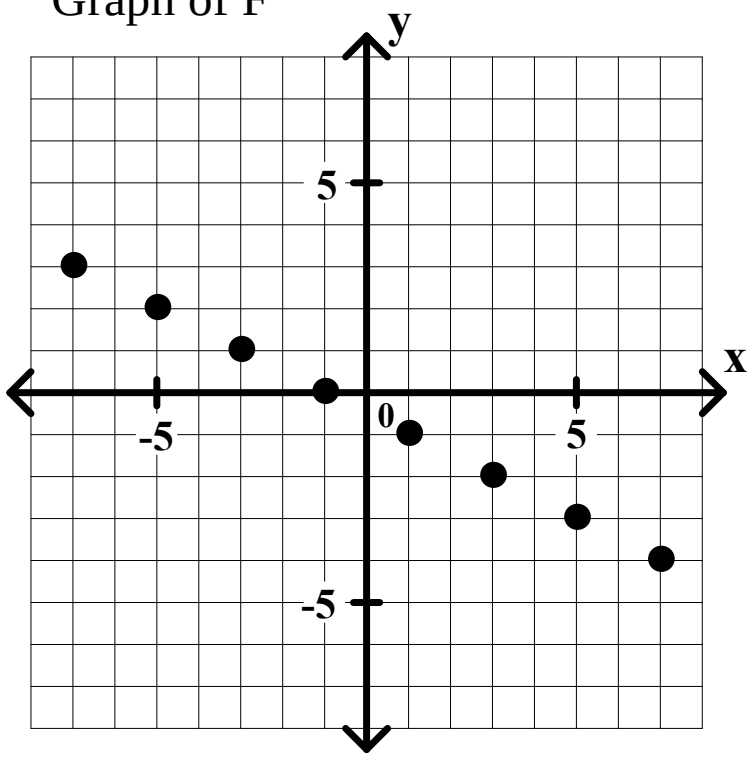

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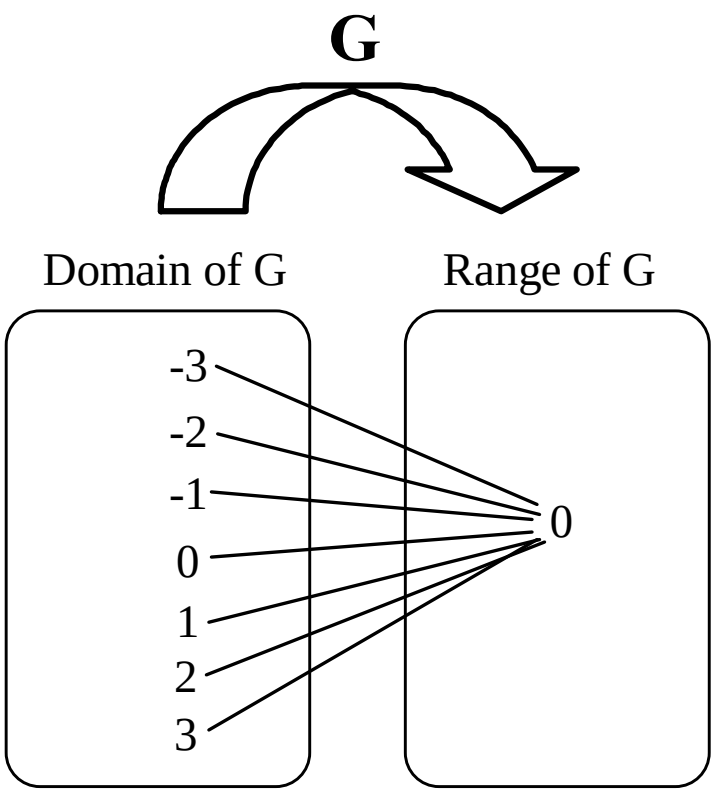
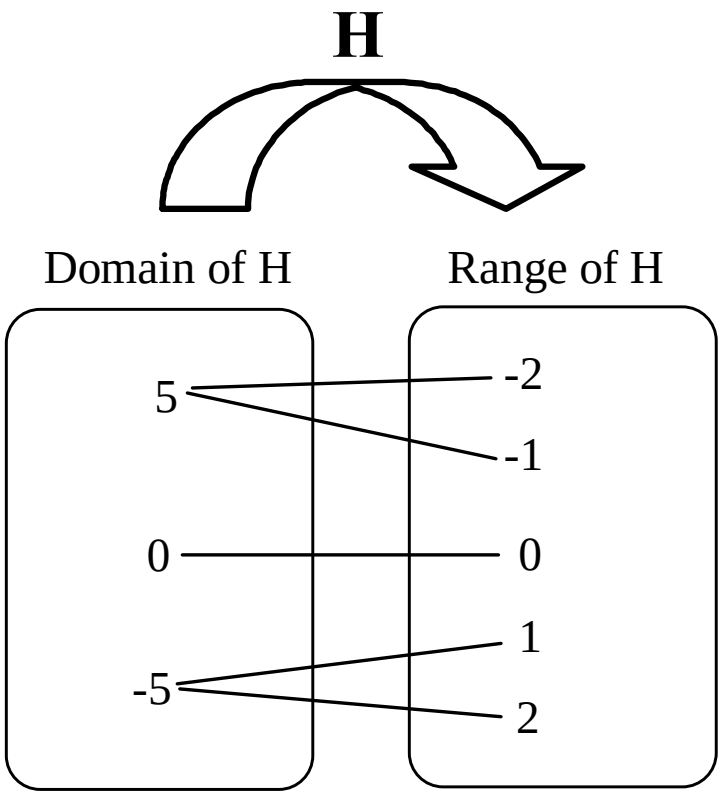


_____ **7. relation H**



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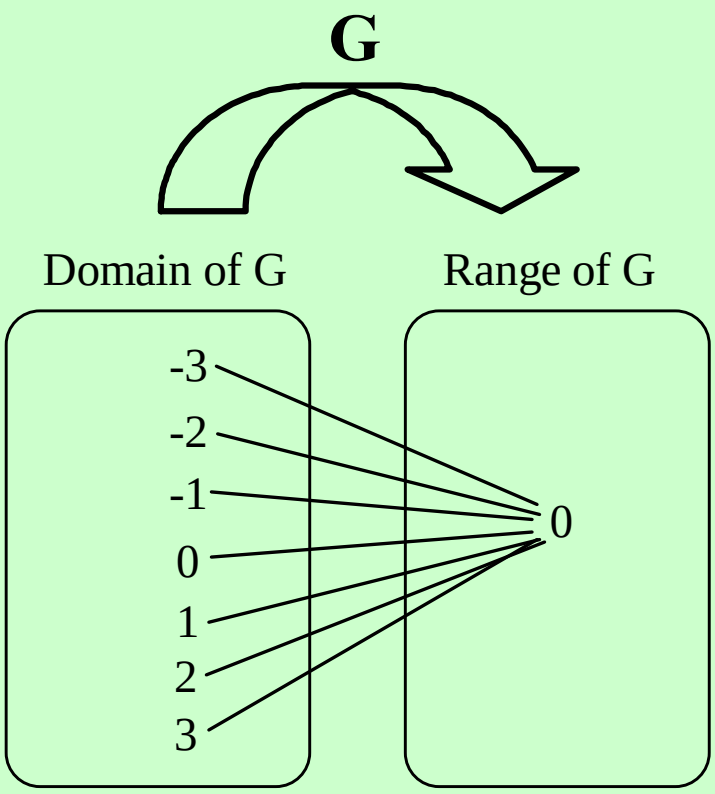

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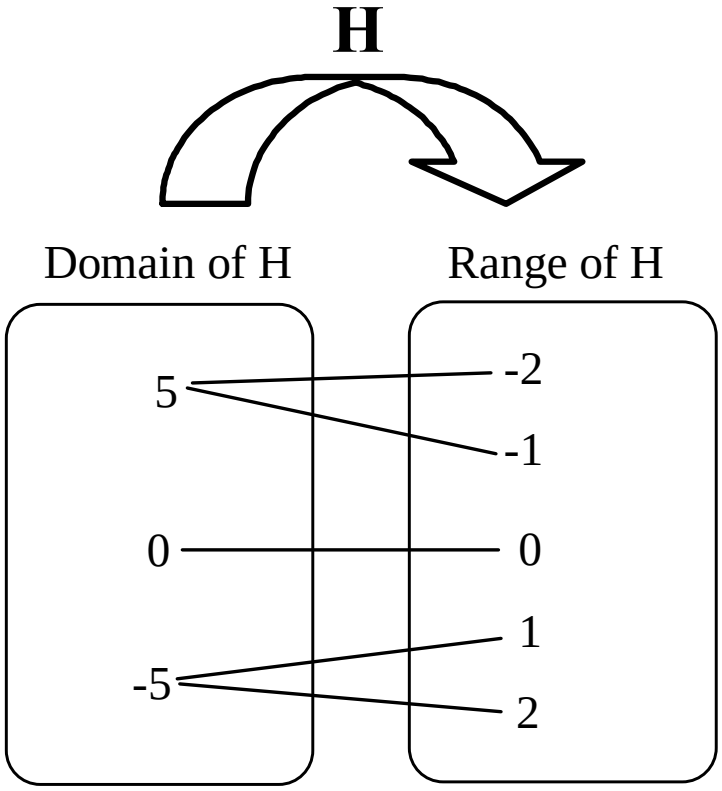

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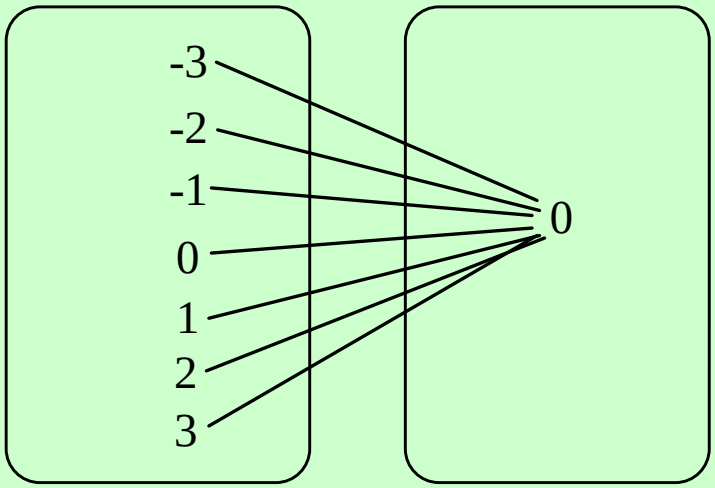
Each value of x is paired with exactly one value of y. It does not matter that the y-coordinates are the same.



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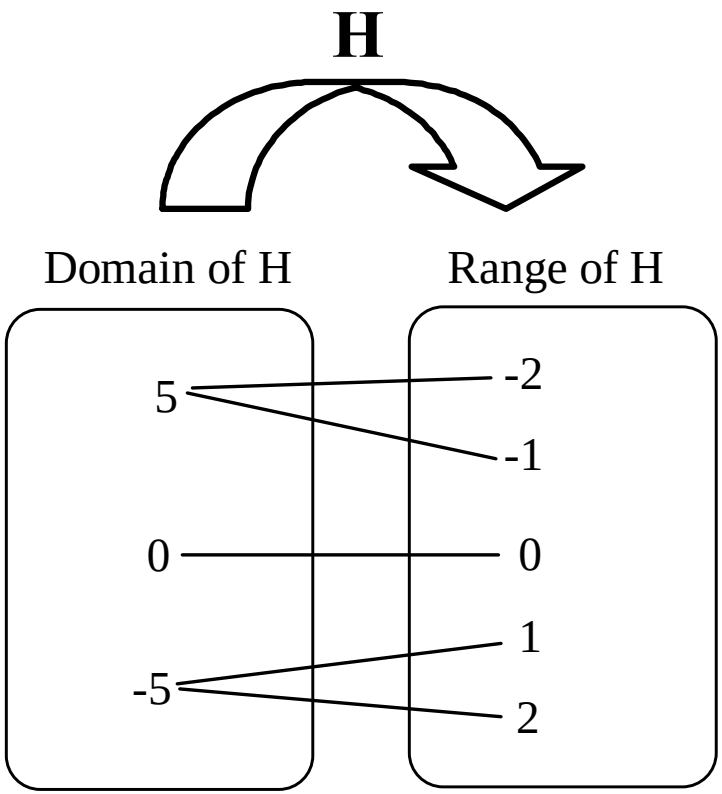

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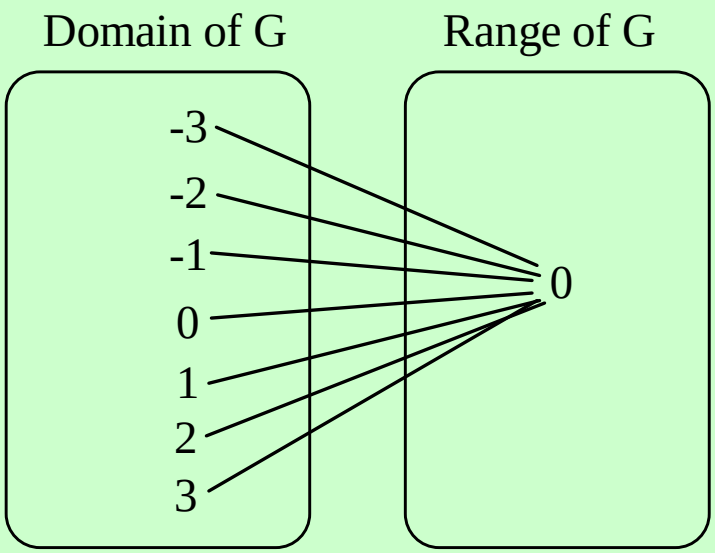

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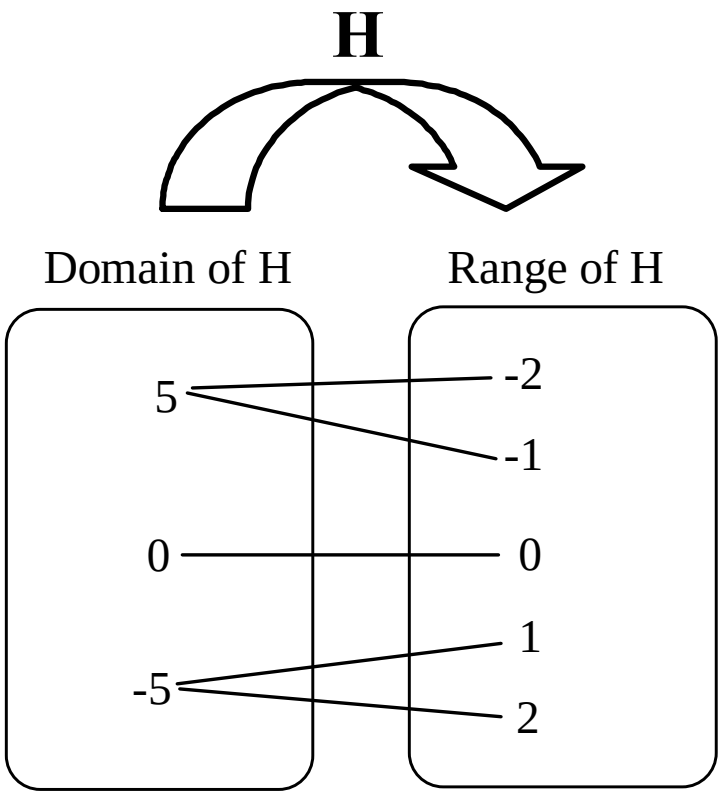

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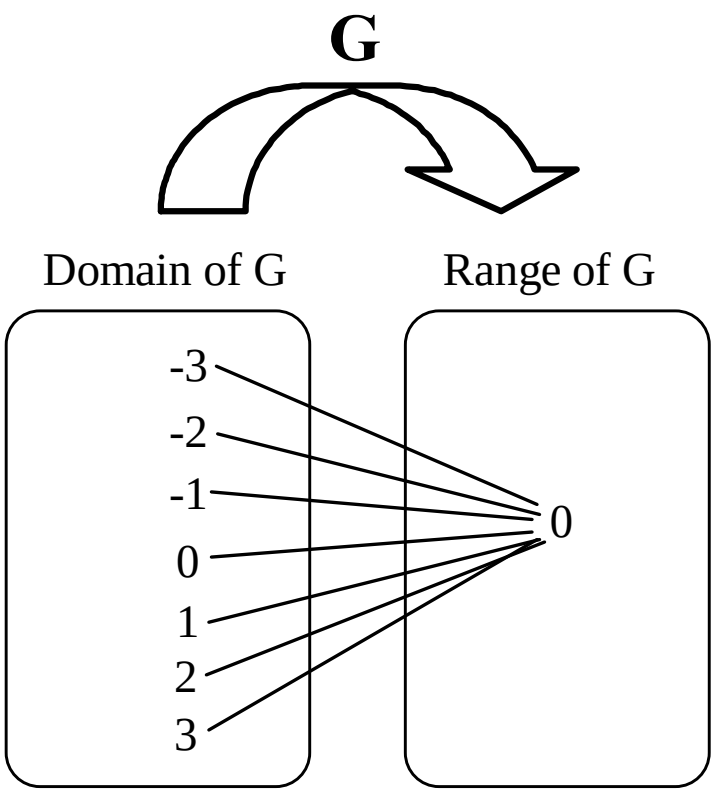

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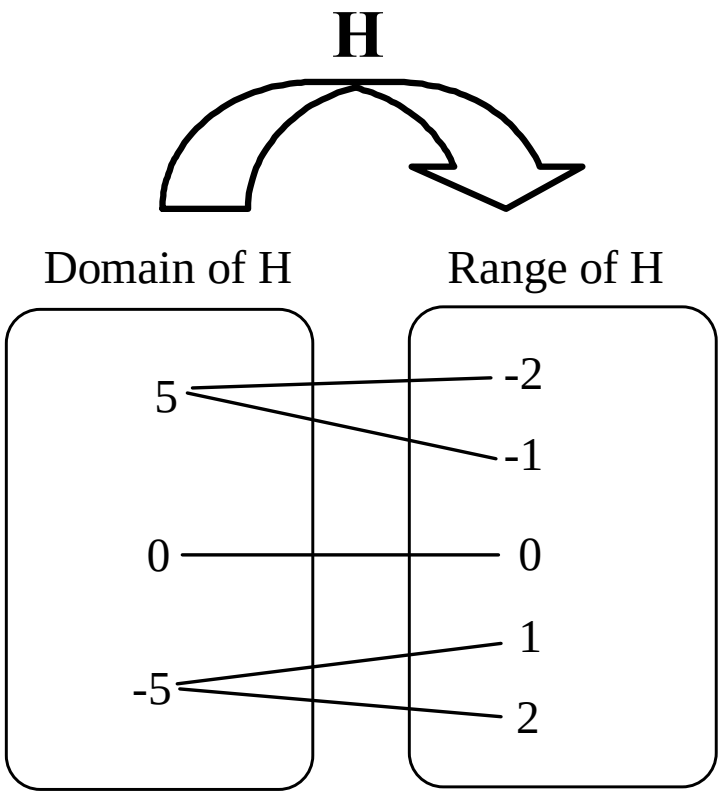

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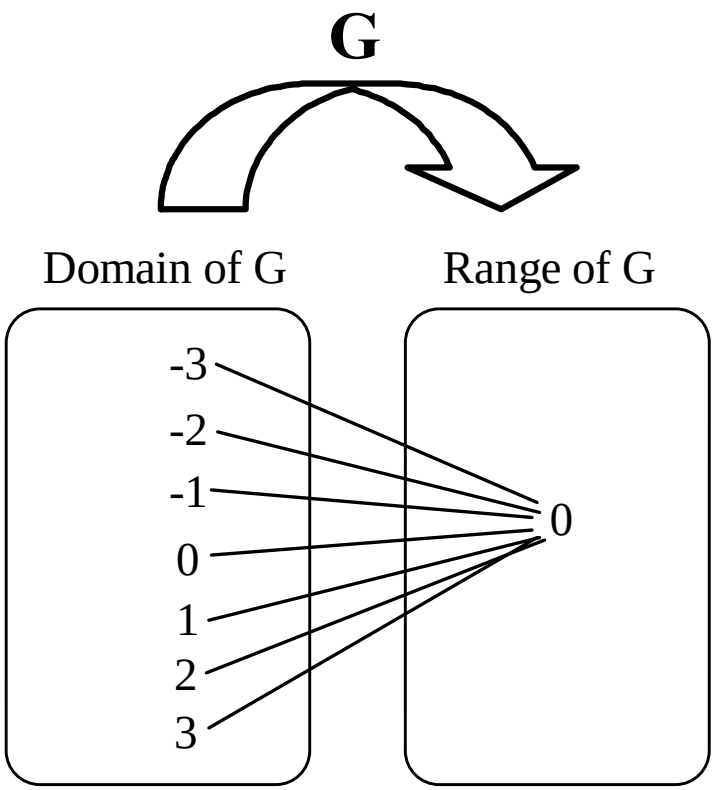

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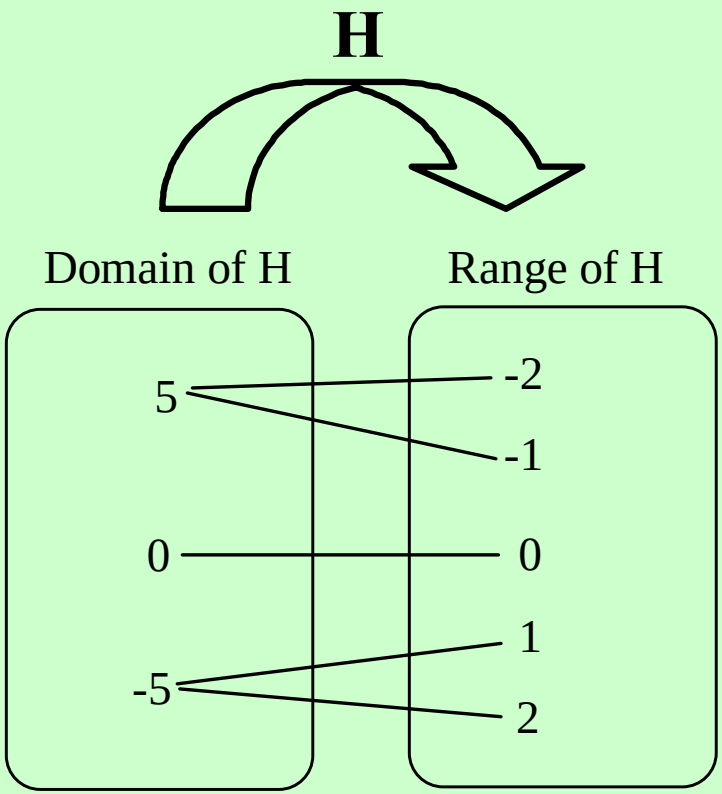

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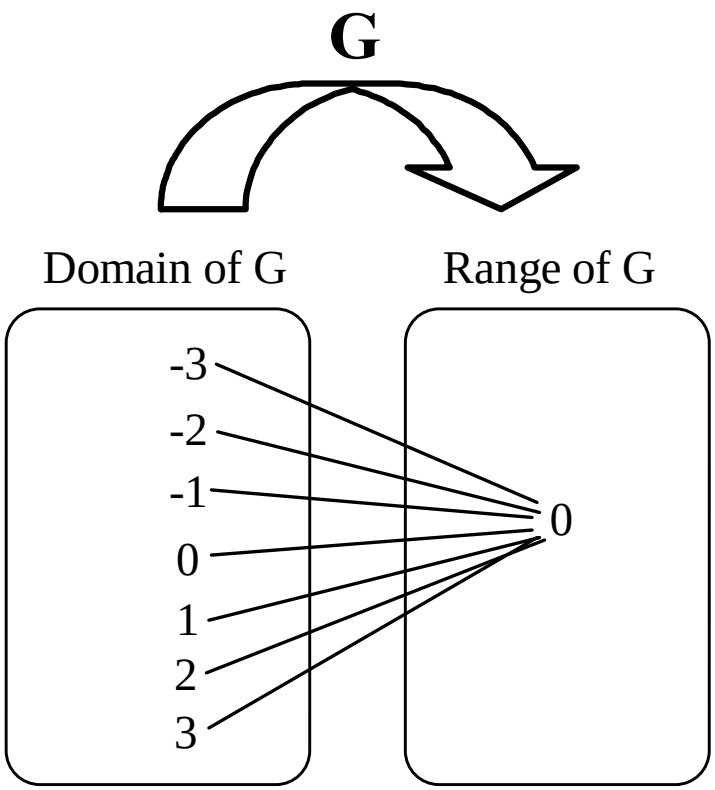

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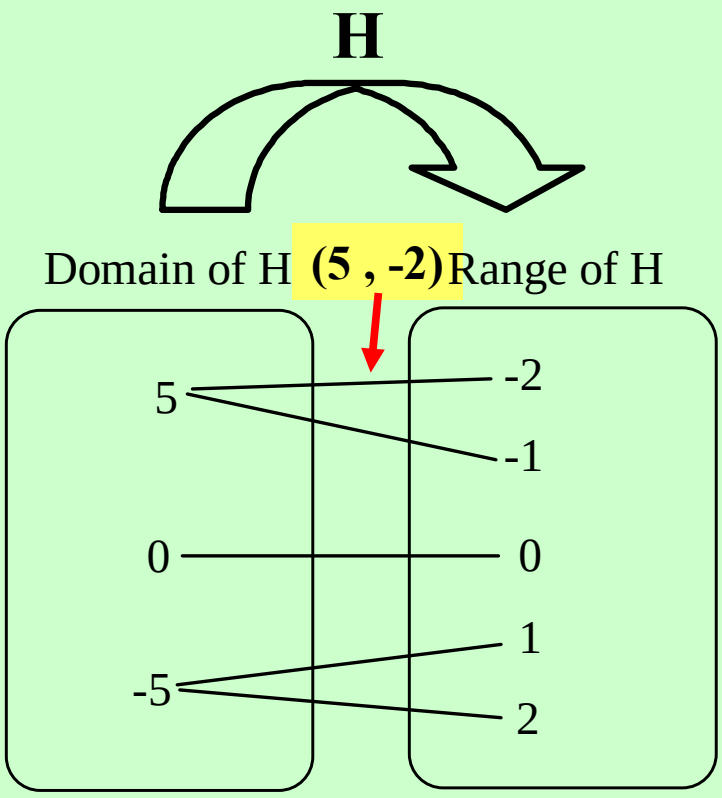

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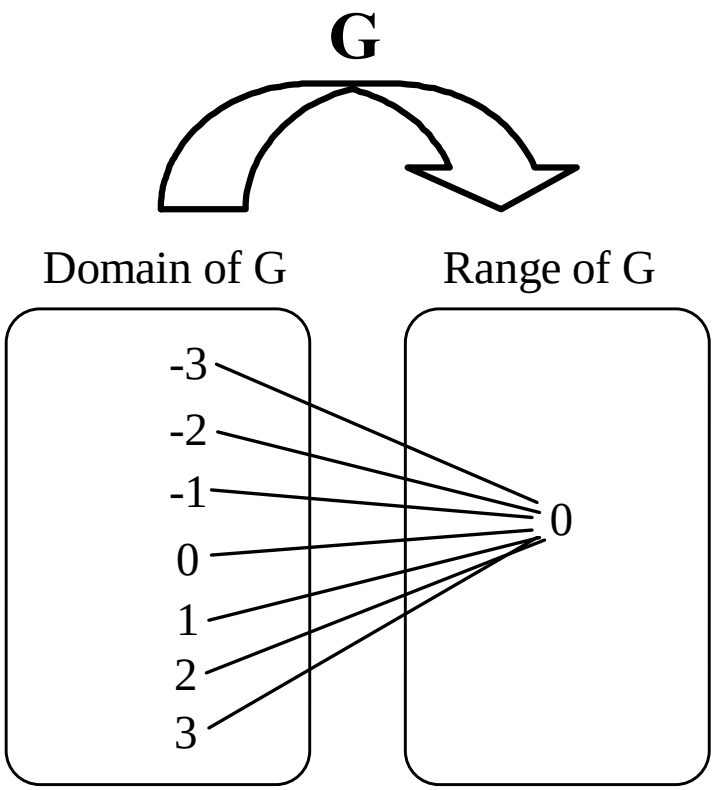

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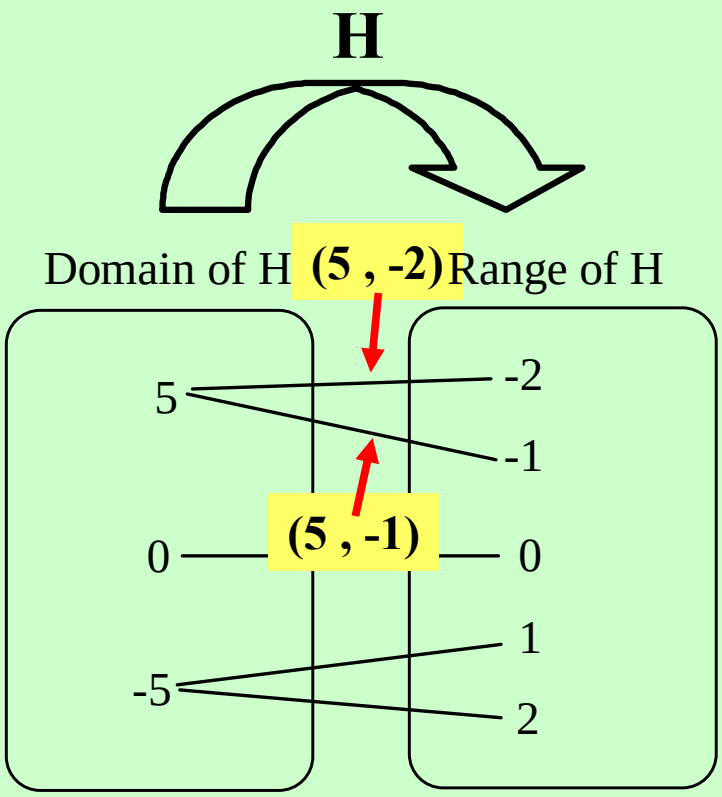

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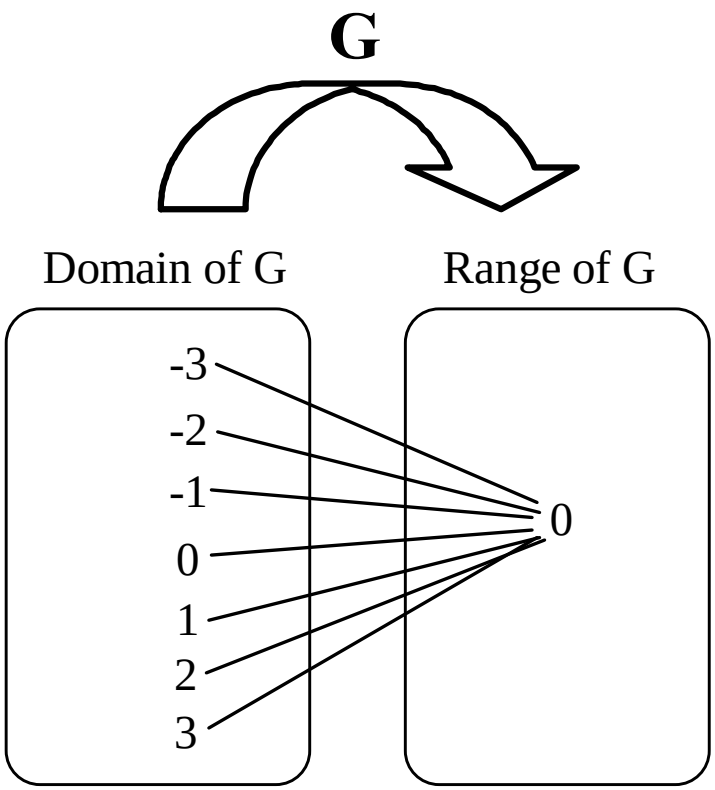

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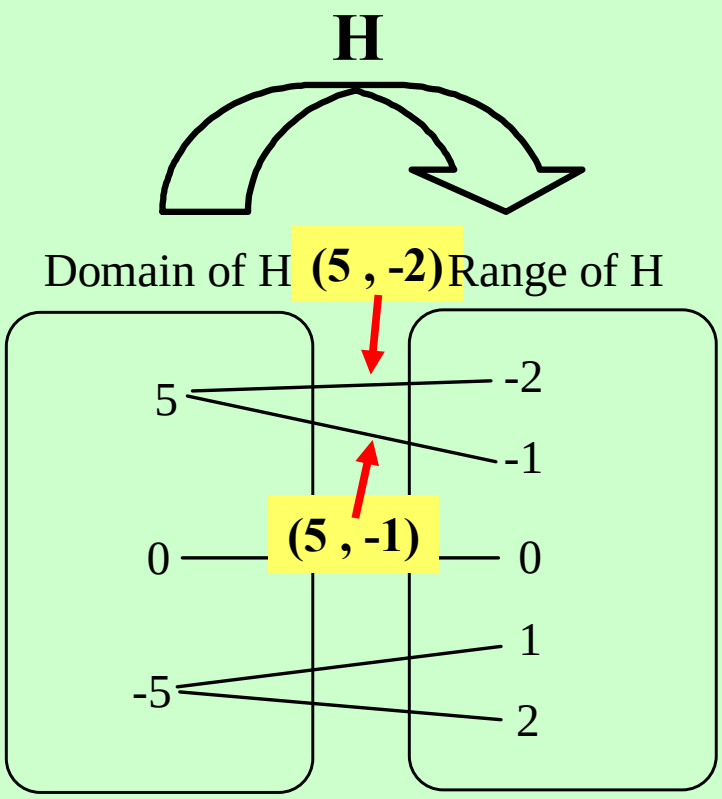

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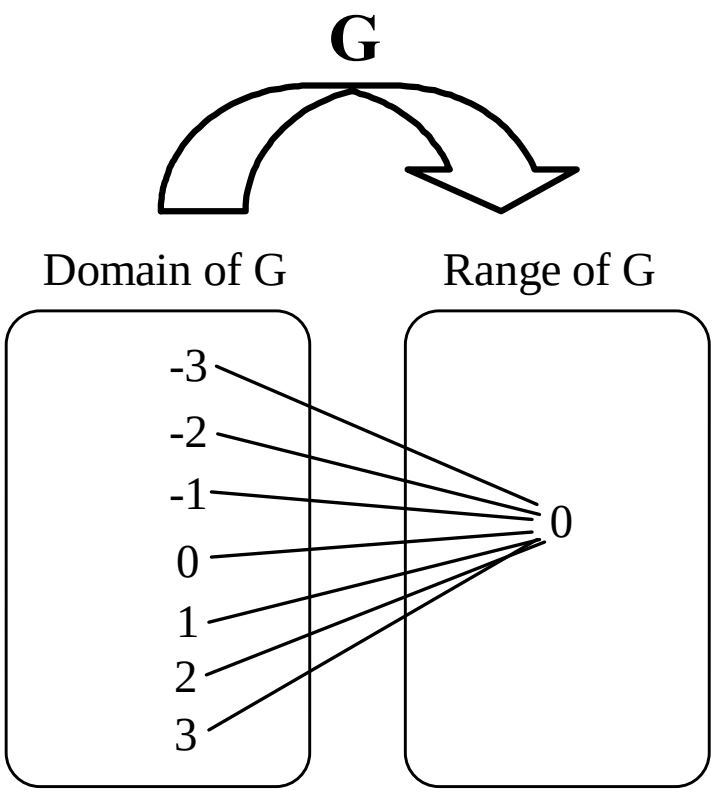

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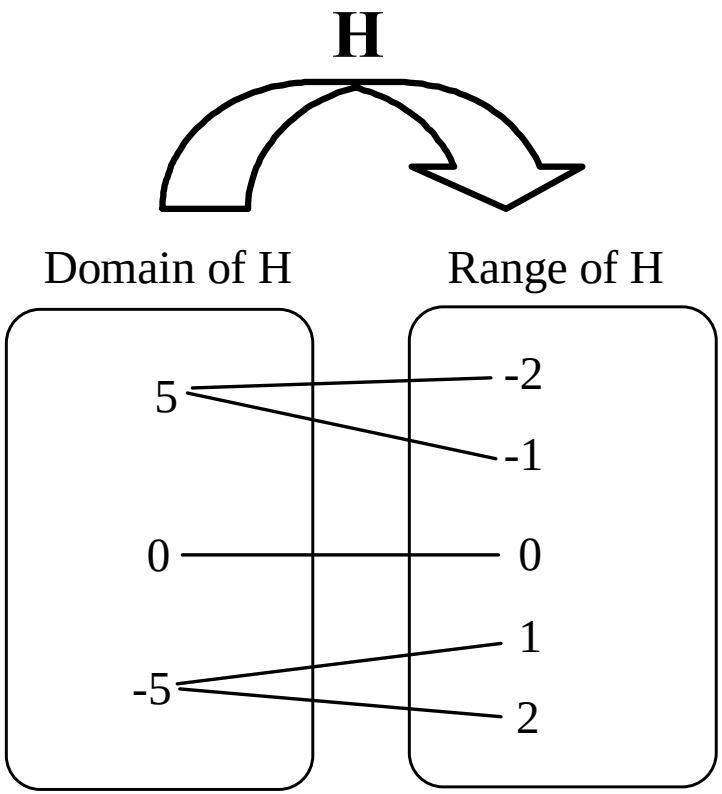

General Algebra II Unit 6 Class Worksheet #2

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) = _____ **9. f(0) = _____** **10. f(4) = _____**

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$$f(-3) = 3(-3) - 6 =$$

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$$f(0) = 3(0) - 6 = -6$$

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

$$f(4) = 3(4) - 6 = 6$$

General Algebra II Unit 6 Class Worksheet #2

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 $f = \{ (x,y) : y = 3x - 6 \}$ 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) = _____ **12. g(0) = _____** **13. g(4) = _____**

General Algebra II Unit 6 Class Worksheet #2

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11. $g(-3) =$ _____

12. $g(0) =$ _____

13. $g(4) =$ _____

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

General Algebra II Unit 6 Class Worksheet #2

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11. $g(-3) =$ _____

12. $g(0) =$ _____

13. $g(4) =$ _____

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

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

General Algebra II Unit 6 Class Worksheet #2

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10. $f(4) =$ 6

11. $g(-3) =$ _____

12. $g(0) =$ _____

13. $g(4) =$ _____

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

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

General Algebra II Unit 6 Class Worksheet #2

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.

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

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

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

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9. $f(0) =$ -6
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12. $g(0) =$ _____
13. $g(4) =$ _____

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

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

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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.

General Algebra II Unit 6 Class Worksheet #2

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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.

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

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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.

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

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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.

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

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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.

General Algebra II Unit 6 Class Worksheet #2

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. $g(4) =$ _____

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.

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

General Algebra II Unit 6 Class Worksheet #2

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. $g(4) =$ _____

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.

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

General Algebra II Unit 6 Class Worksheet #2

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

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

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.

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

General Algebra II Unit 6 Class Worksheet #2

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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**

General Algebra II Unit 6 Class Worksheet #2

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.

8. H(-3) = _____ **9. H(0) = _____** **10. H(4) = _____**

11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

General Algebra II Unit 6 Class Worksheet #2

Relation: A relation is a set of ordered pairs.

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8. H(-3) = _____ **9. H(0) = _____** **10. H(4) = _____**

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12. $L(0) =$ _____

13. $L(4) =$ _____

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

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11. $L(-3) =$ _____

12. $L(0) =$ _____

13. $L(4) =$ _____

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

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

General Algebra II Unit 6 Class Worksheet #2

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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.

8. $H(-3) = 7$
9. $H(0) =$ _____
10. $H(4) =$ _____
11. $L(-3) =$ _____
12. $L(0) =$ _____
13. $L(4) =$ _____

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

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

General Algebra II Unit 6 Class Worksheet #2

Relation: A relation is a set of ordered pairs.

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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.

8. H(-3) = 7 **9. H(0) = _____** **10. H(4) = _____**

11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

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

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

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11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

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

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

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

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8. H(-3) = 7 **9. H(0) = 1** **10. H(4) = _____**

11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

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

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

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

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11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

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

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

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

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11. L(-3) = _____ **12. L(0) = _____** **13. 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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8. H(-3) = 7 **9. H(0) = 1** **10. H(4) = -7**

11. L(-3) = _____ **12. L(0) = _____** **13. 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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Given: Functions H and L defined by the equation $H(x) = -2x + 1$ and $L(x) = x^3$. Evaluate each of the following.

8. $H(-3) = \_\_7\_\_$
9. $H(0) = \_\_1\_\_$
10. $H(4) = \_\_-7\_\_$
11. $L(-3) = \_\_\_\_\_$
12. $L(0) = \_\_\_\_\_$
13. $L(4) = \_\_\_\_\_$

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

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

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

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

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8. H(-3) = 7
9. H(0) = 1
10. H(4) = -7
11. L(-3) = _____
12. L(0) = _____
13. L(4) = _____

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

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

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8. $H(-3) =$ 7

9. $H(0) =$ 1

10. $H(4) =$ -7

11. $L(-3) =$ _____

12. $L(0) =$ _____

13. $L(4) =$ _____

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

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

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

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

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8. H(-3) = 7
9. H(0) = 1
10. H(4) = -7
11. L(-3) = _____
12. L(0) = _____
13. 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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Given: Functions H and L defined by the equation H(x) = -2x + 1 and $L(x) = x^3$. Evaluate each of the following.

8. H(-3) = 7 **9. H(0) = 1** **10. H(4) = -7**

11. L(-3) = _____ **12. L(0) = _____** **13. L(4) = _____**

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

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

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

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

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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.

8. $H(-3) = \_\_7\_\_$
9. $H(0) = \_\_1\_\_$
10. $H(4) = \_\_-7\_\_$
11. $L(-3) = \_\_-27\_\_$
12. $L(0) = \_\_\_\_\_$
13. $L(4) = \_\_\_\_\_$

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

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

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

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

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Relation: A relation is a set of ordered pairs.

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Evaluate each of the following.

8. $H(-3) = \_\_7\_\_$
9. $H(0) = \_\_1\_\_$
10. $H(4) = \_\_-7\_\_$
11. $L(-3) = \_\_-27\_\_$
12. $L(0) = \_\_\_\_\_$
13. $L(4) = \_\_\_\_\_$

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

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

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

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

General Algebra II Unit 6 Class Worksheet #2

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.

8. H(-3) = 7
9. H(0) = 1
10. H(4) = -7
11. L(-3) = -27
12. L(0) = _____
13. L(4) = _____

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

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12. $L(0) =$ 0

13. $L(4) =$ _____

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9. $H(0) = 1$
10. $H(4) = -7$
11. $L(-3) = -27$
12. $L(0) = 0$
13. $L(4) = 64$

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

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

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

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$L(-3) = (-3)^3 = -27$

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$L(0) = (0)^3 = 0$

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General Algebra II Unit 6 CWS #2

Relation: A relation is a set of ordered pairs.

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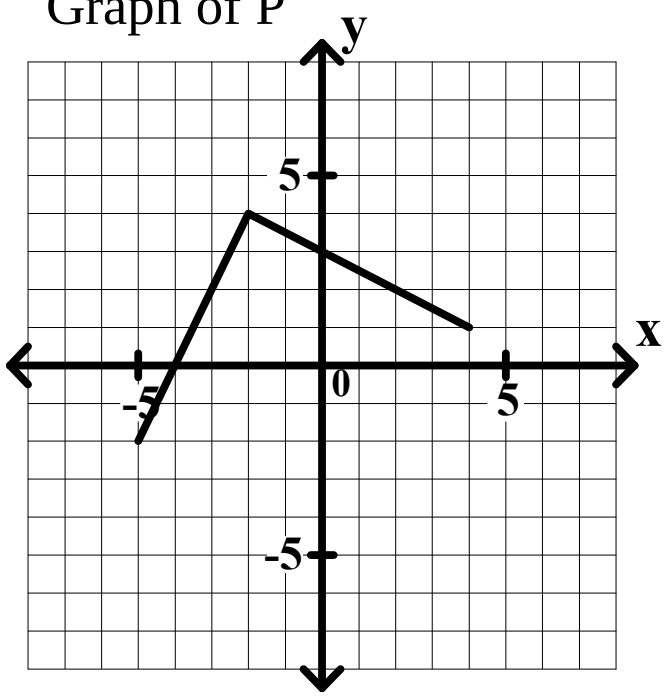
Given the function P defined by this graph.

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) = _____

General Algebra II Unit 6 CWS #2

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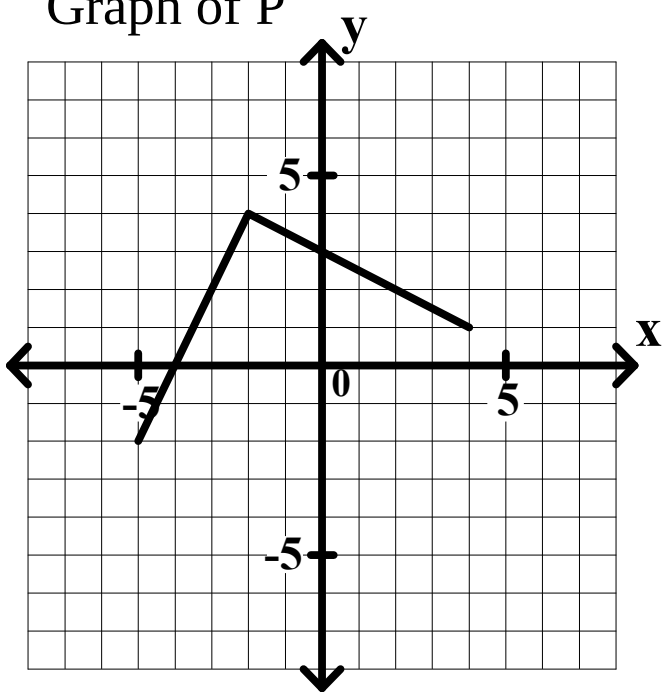

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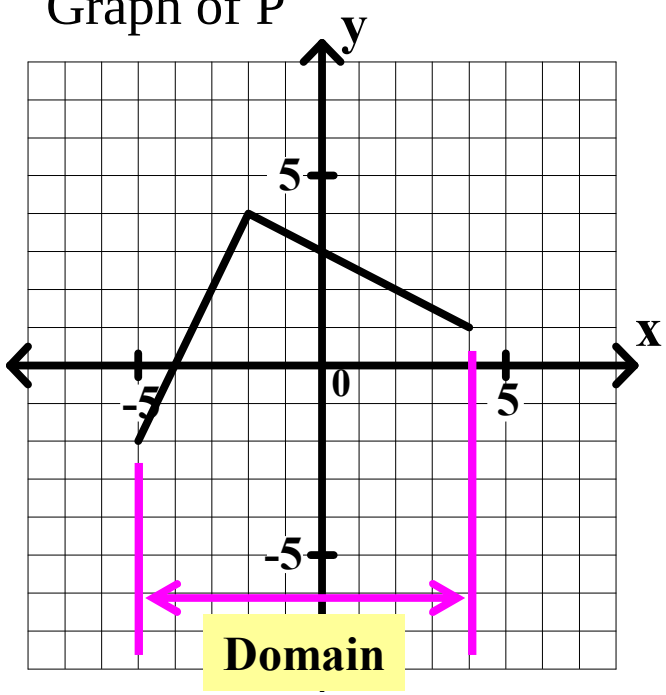

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22. P(-3) = _____

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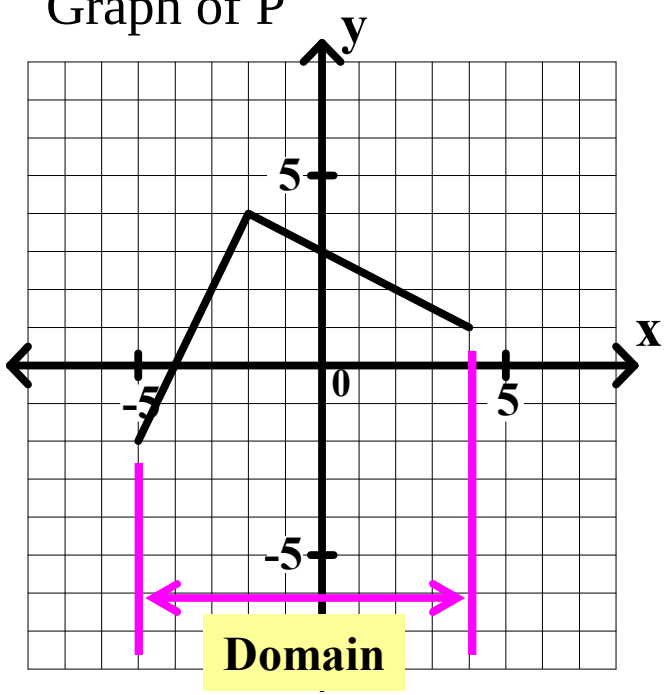

20. What is the domain of P? [-5 _____

21. What is the range of P? _____

Evaluate each of the following.

22. P(-3) = _____

23. P(0) = _____

24. P(4) = _____

General Algebra II Unit 6 CWS #2

Relation: A relation is a set of ordered pairs.

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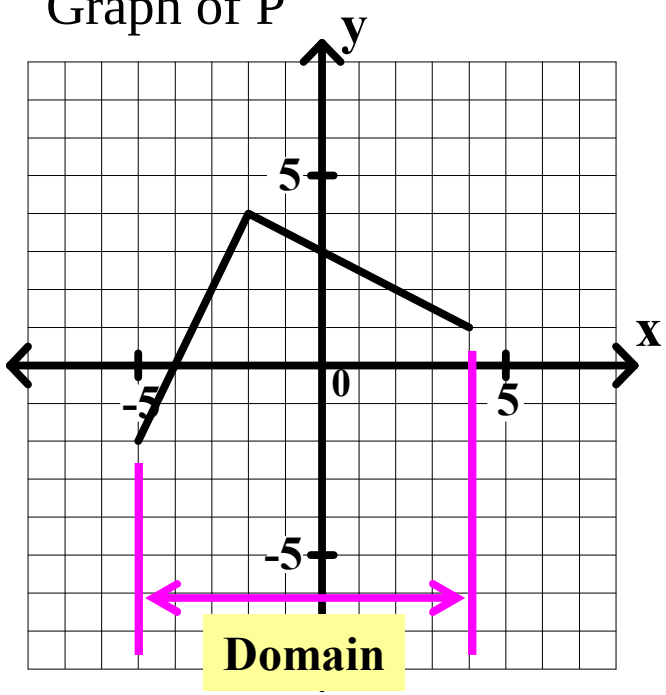
Given the function P defined by this graph.

Graph of P



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

21. What is the range of P? _____

Evaluate each of the following.

22. P(-3) = _____

23. P(0) = _____

24. P(4) = _____

General Algebra II Unit 6 CWS #2

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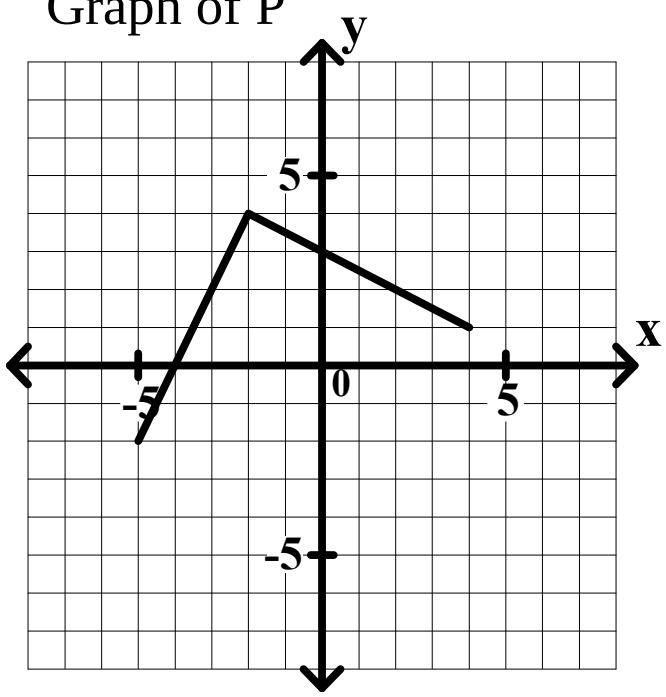

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Evaluate each of the following.

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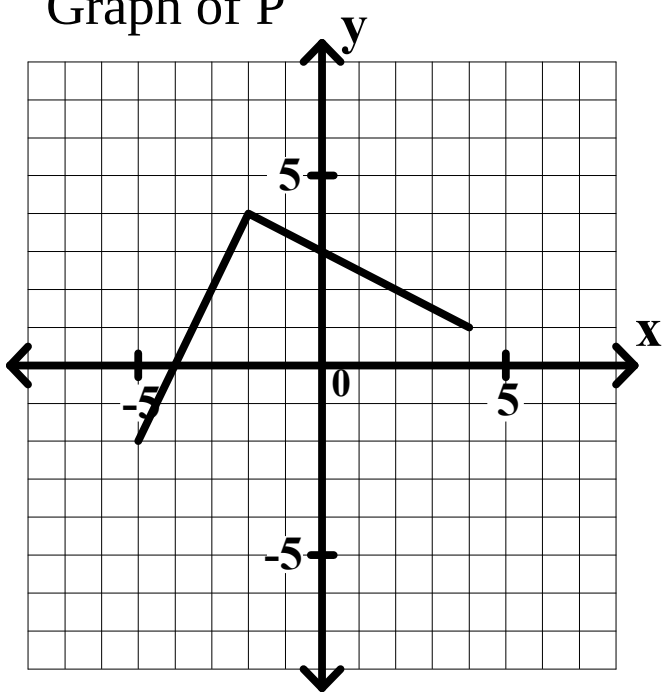

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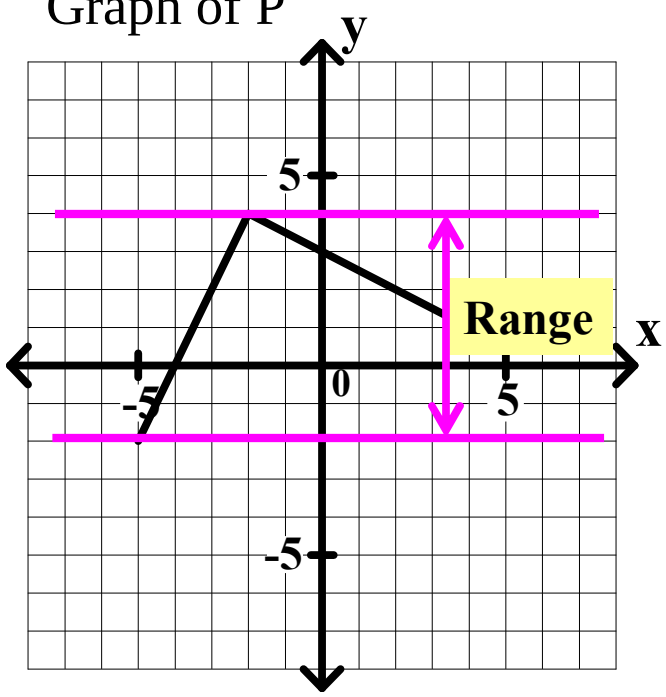

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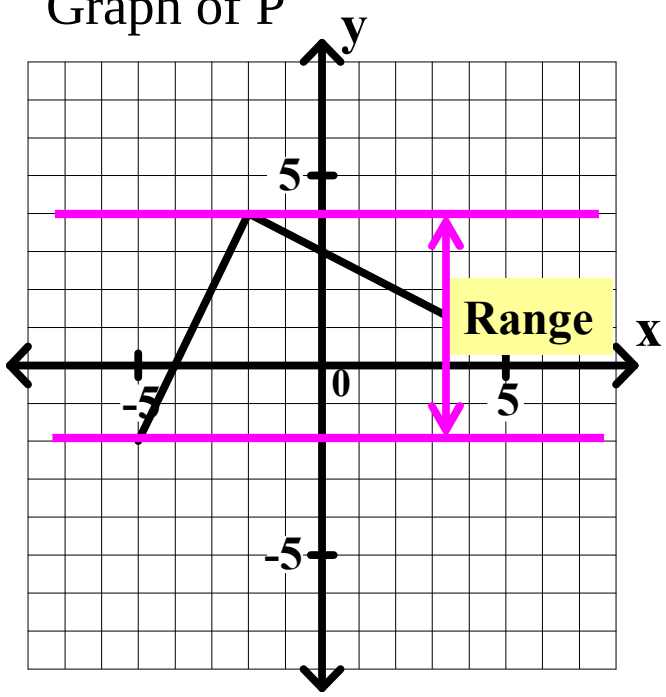

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21. What is the range of P? **[-2 ,**

Evaluate each of the following.

22. P(-3) = _____

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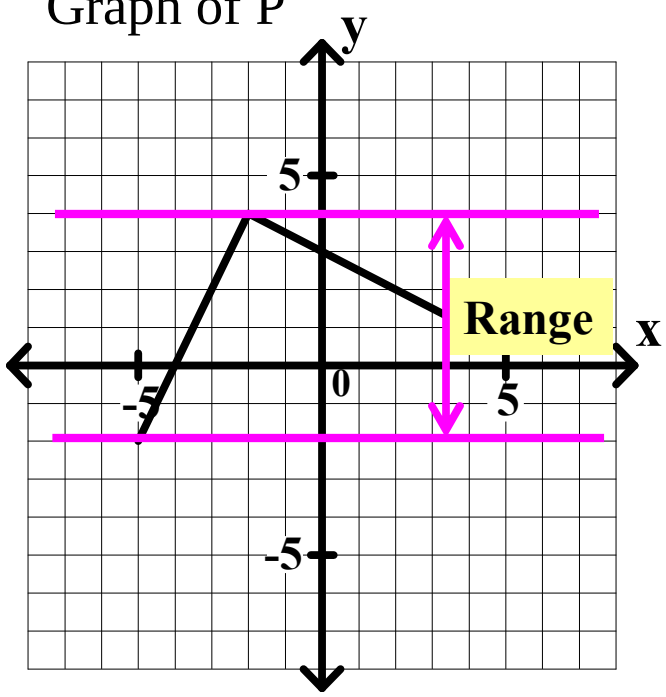

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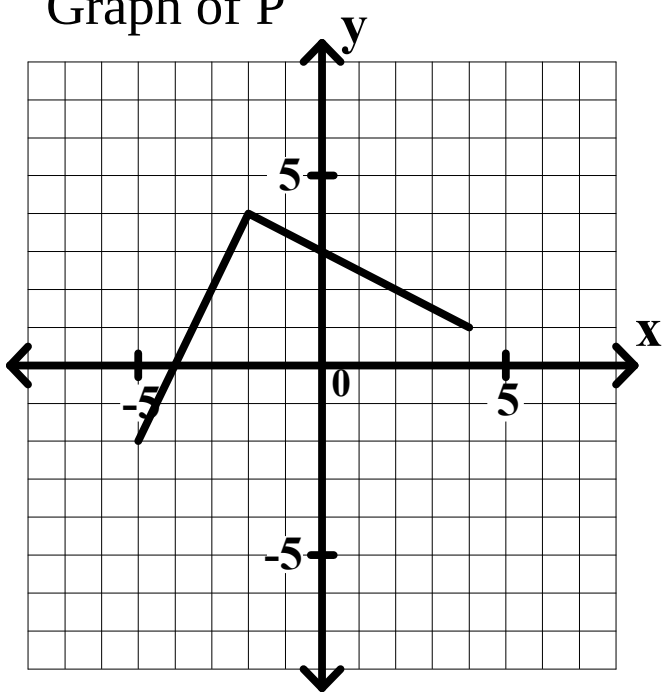

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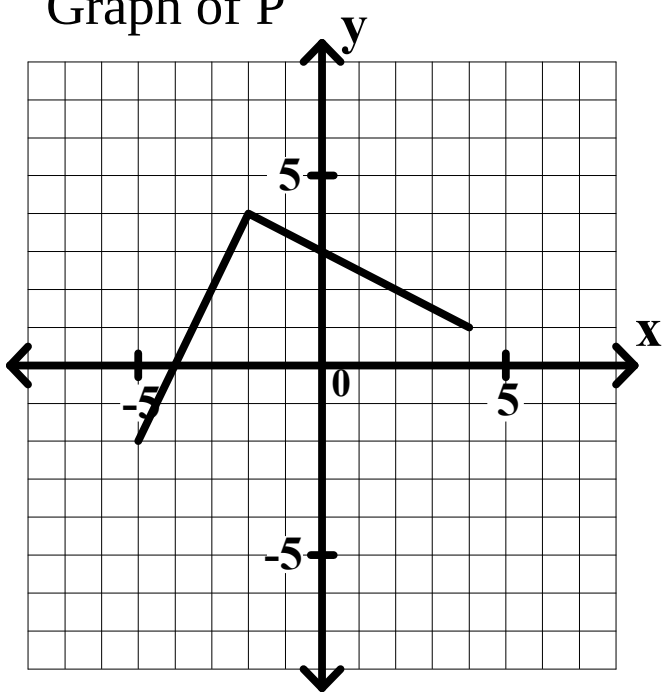

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P(-3) 'means' the value of y when x = -3 in the function P.

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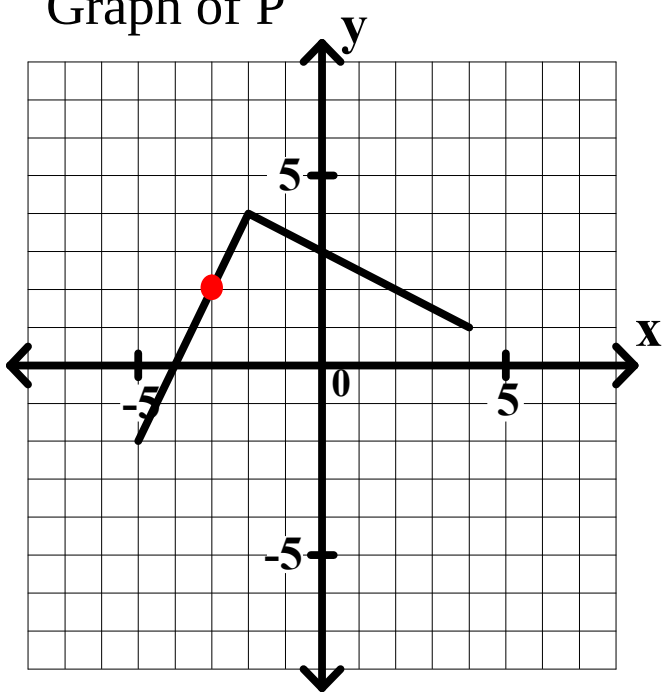

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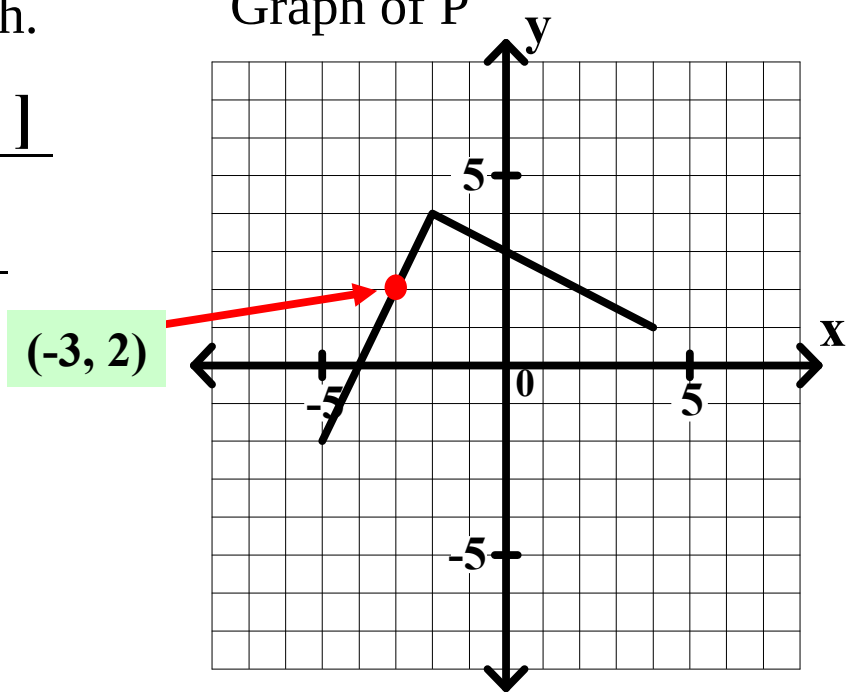

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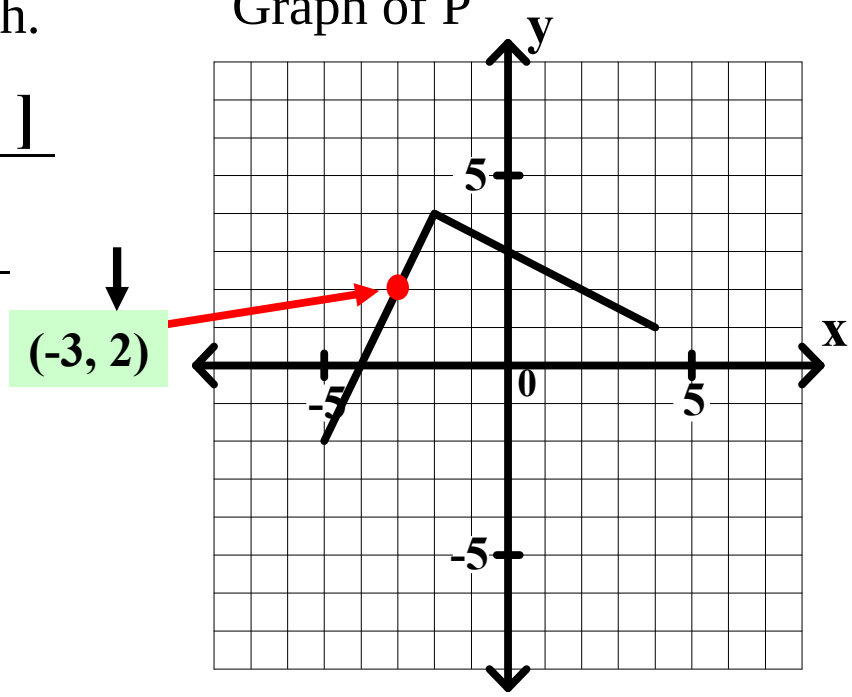

20. What is the domain of P? **[-5 , 4]**

21. What is the range of P? **[-2 , 4]**

Evaluate each of the following.

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

23. P(0) = _____

24. P(4) = _____

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

General Algebra II Unit 6 CWS #2

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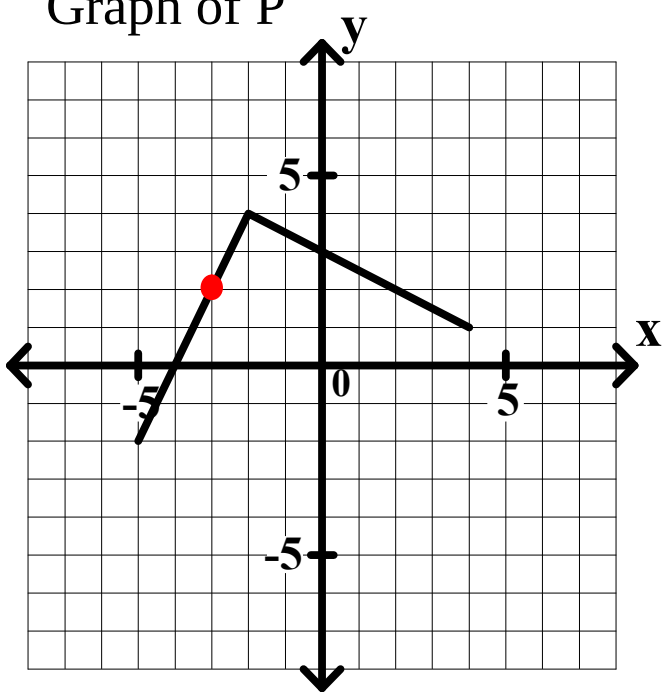

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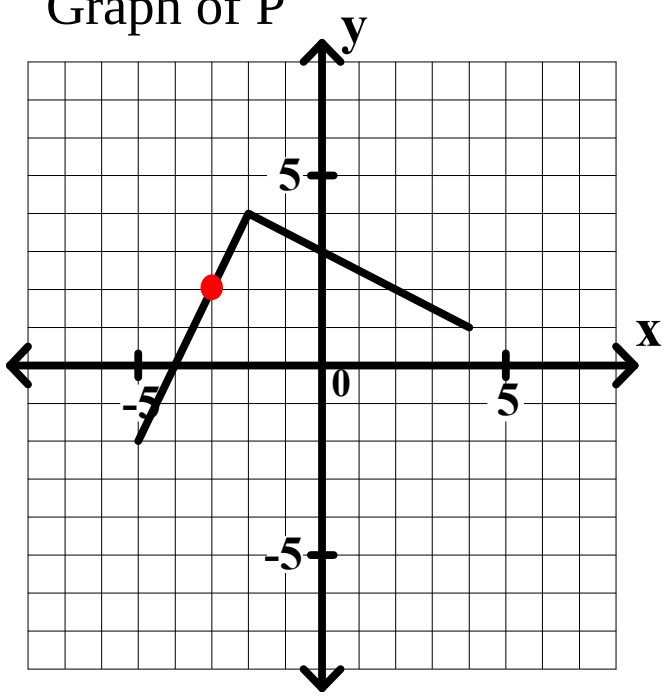

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Evaluate each of the following.

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

General Algebra II Unit 6 CWS #2

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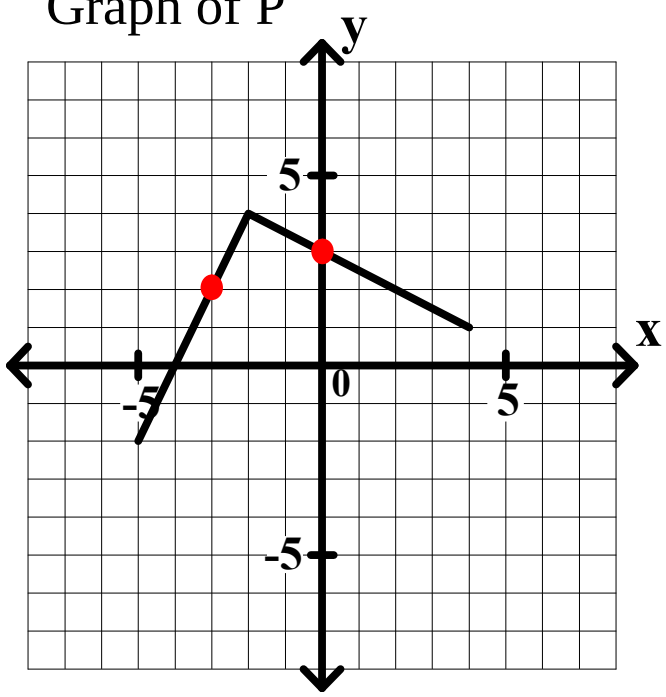
Given the function P defined by this graph.

Graph of P



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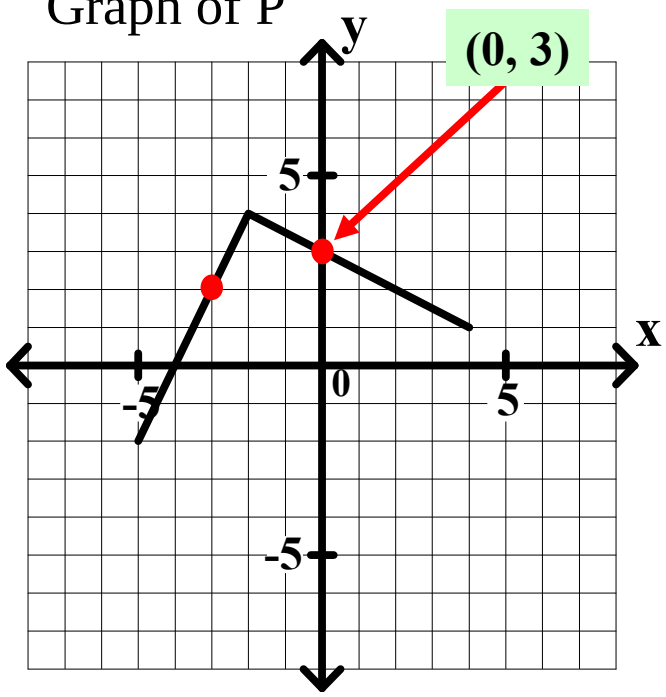

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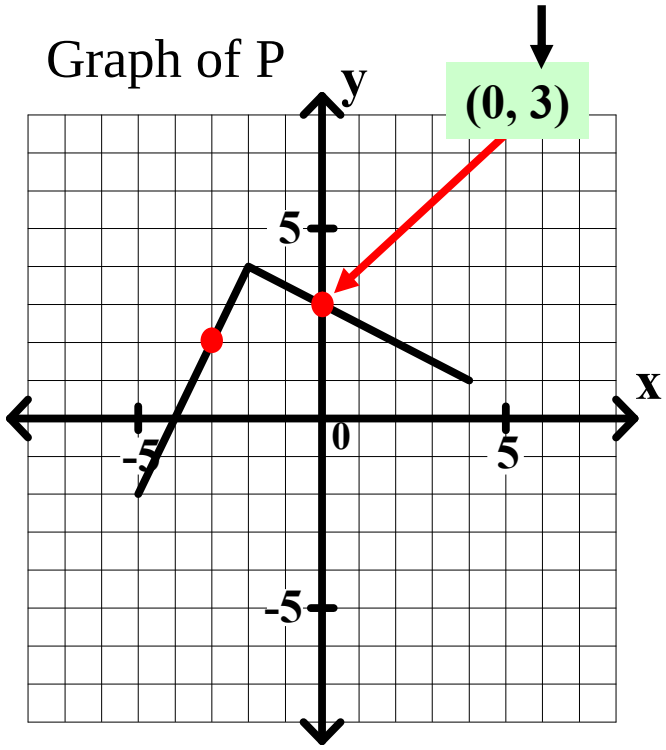

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21. What is the range of P? **[-2 , 4]**

Evaluate each of the following.

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

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

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General Algebra II Unit 6 CWS #2

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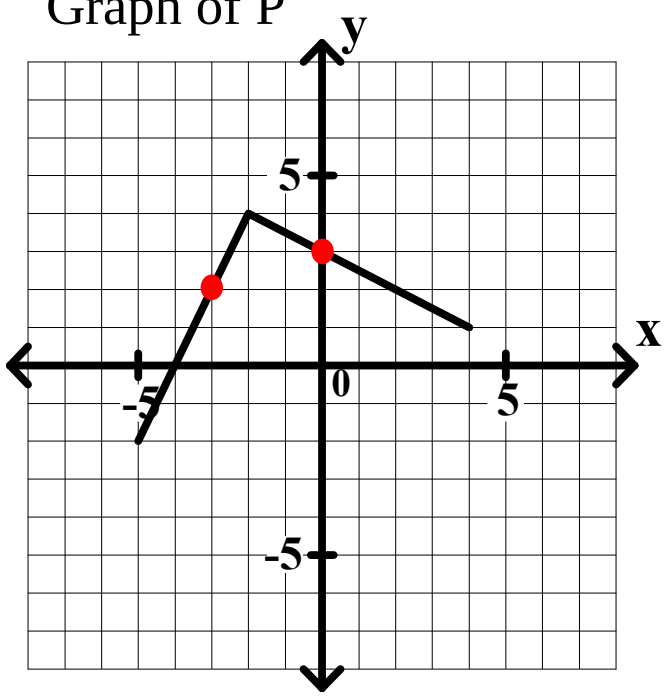

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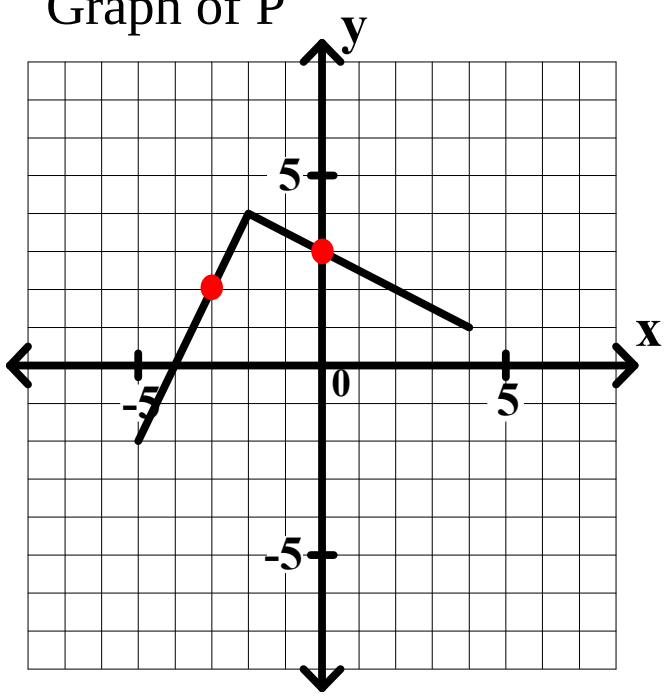

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Evaluate each of the following.

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

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24. P(4) = _____

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

General Algebra II Unit 6 CWS #2

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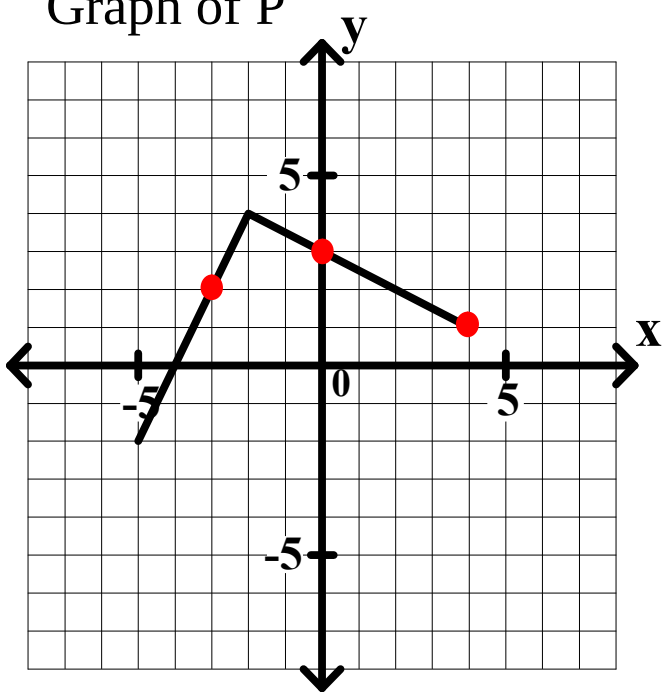

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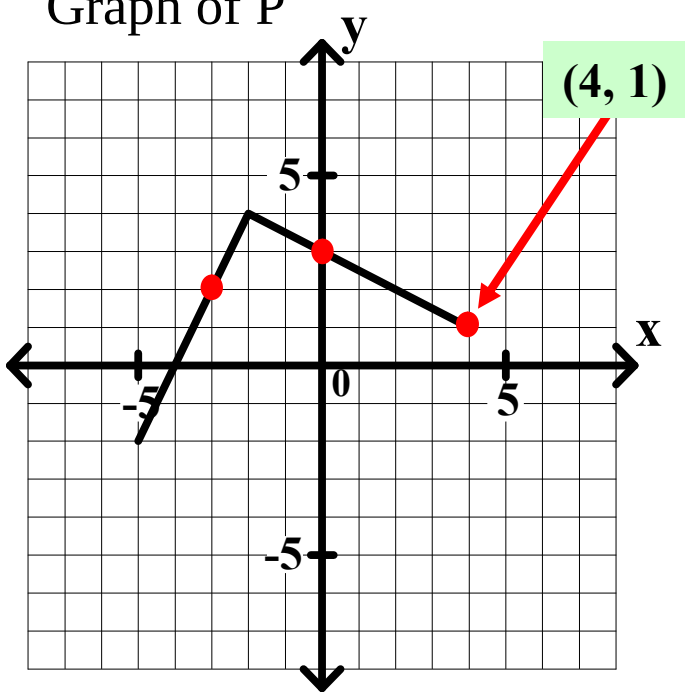


20. What is the domain of P? **[-5 , 4]**

21. What is the range of P? **[-2 , 4]**

Evaluate each of the following.

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

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

24. P(4) = _____

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

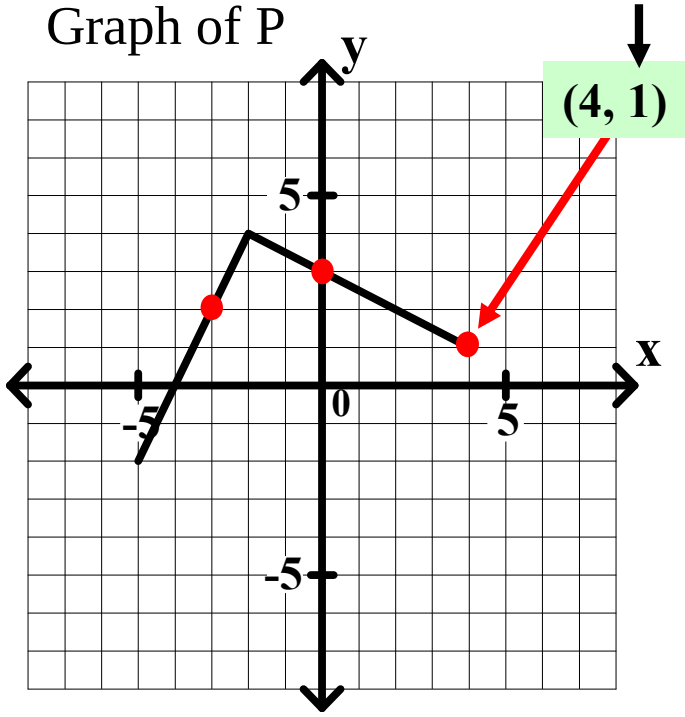
General Algebra II Unit 6 CWS #2

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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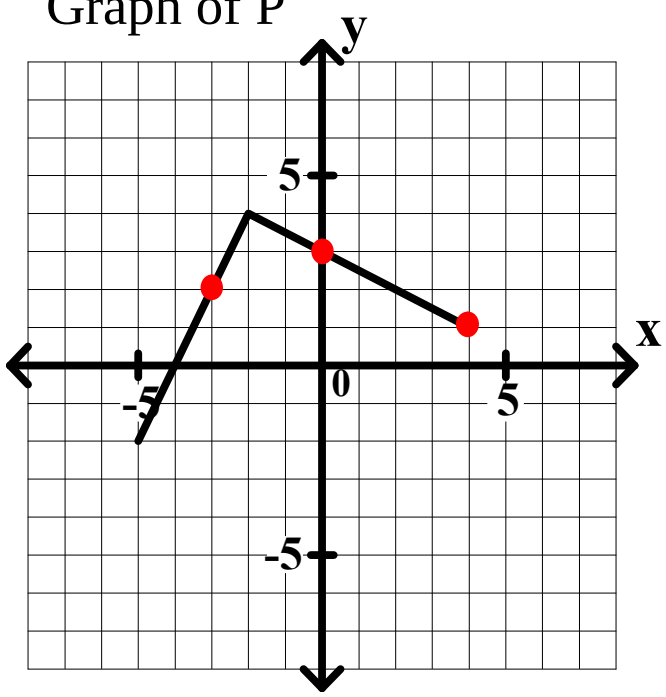

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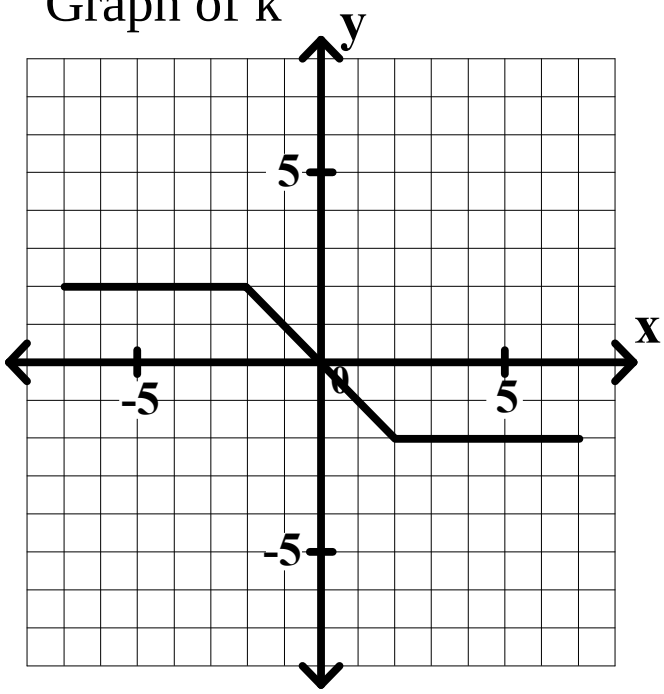

25. What is the domain of k? _____

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Evaluate each of the following.

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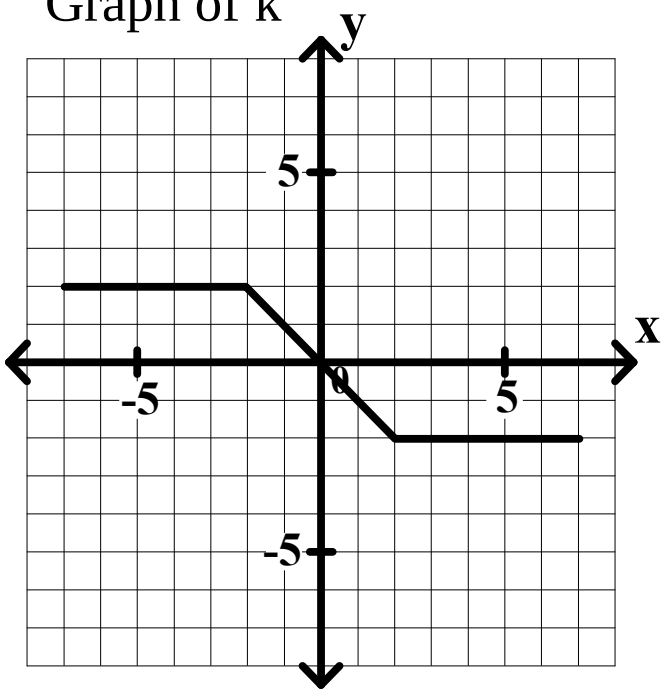

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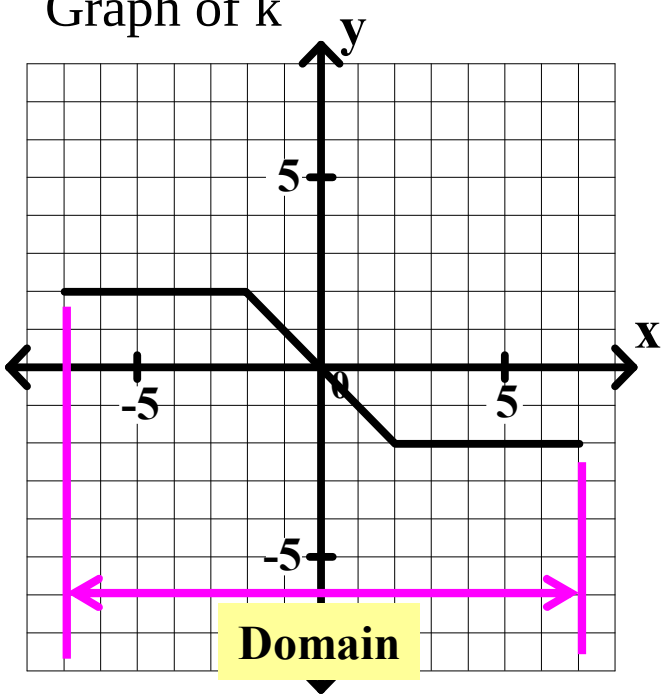

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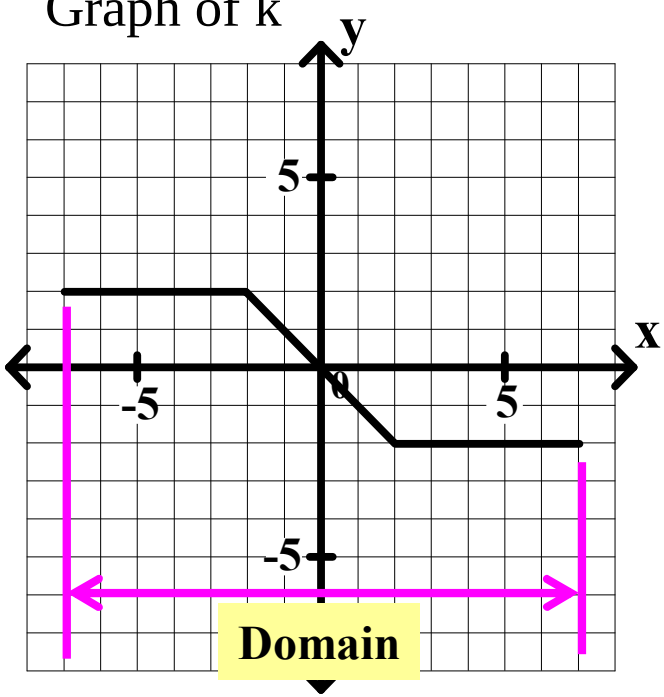

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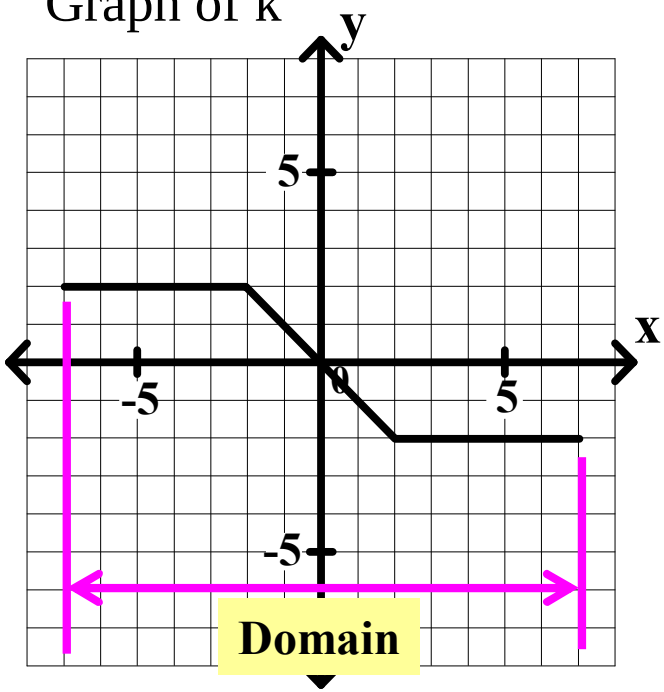

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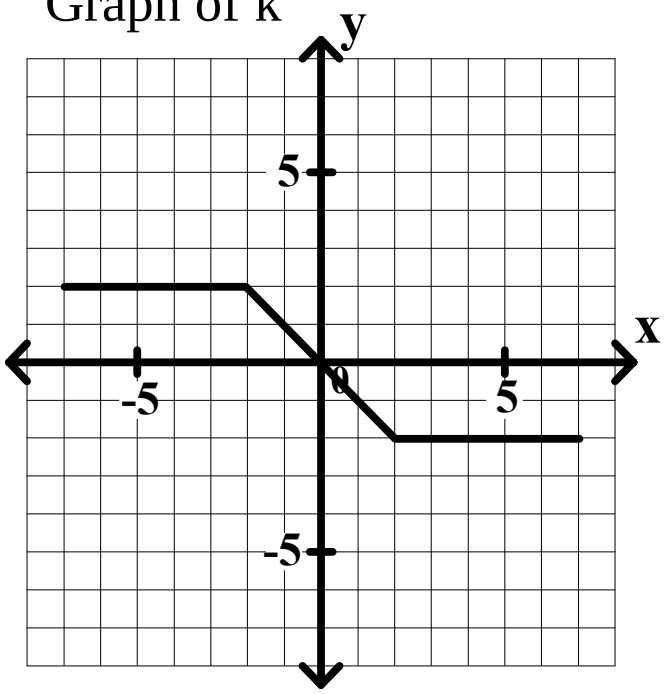

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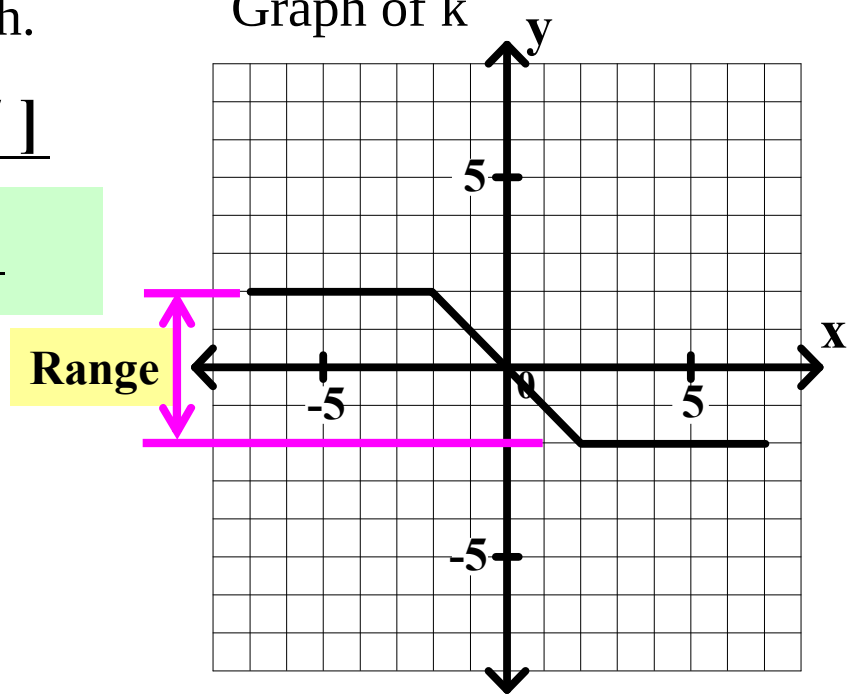

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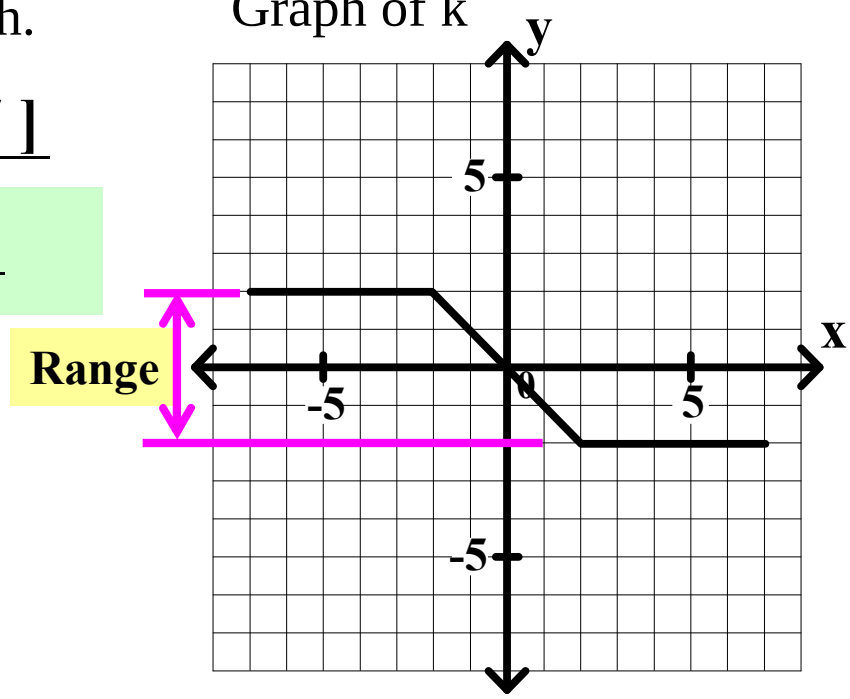

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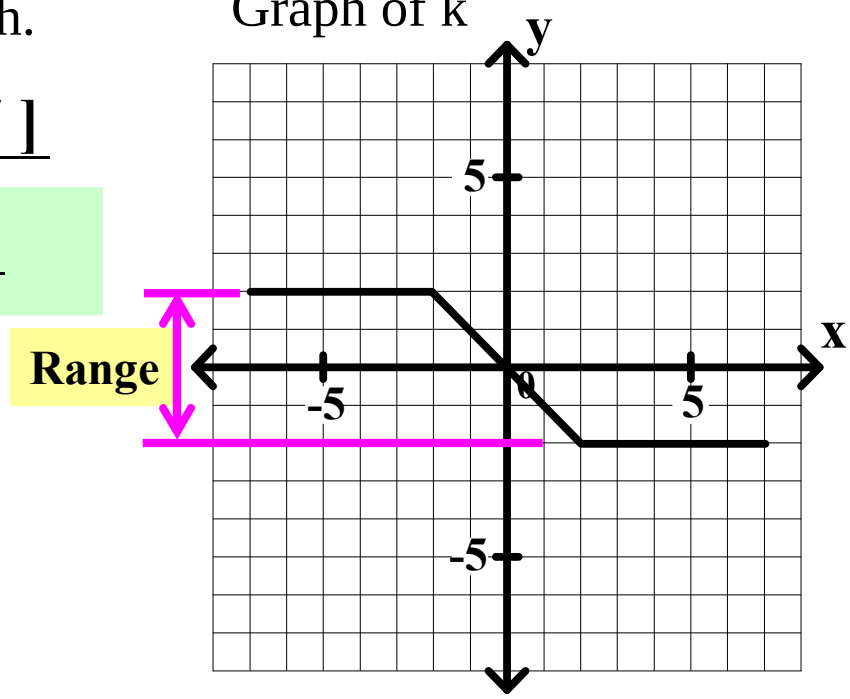

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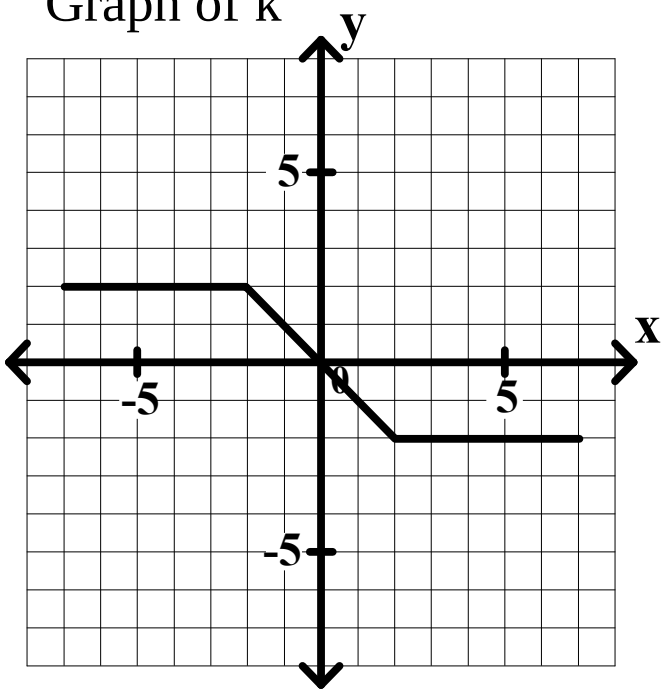

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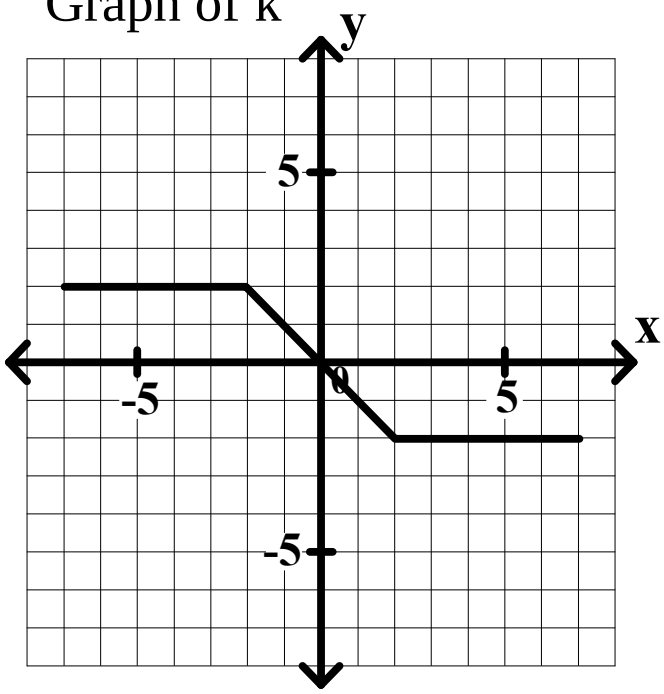

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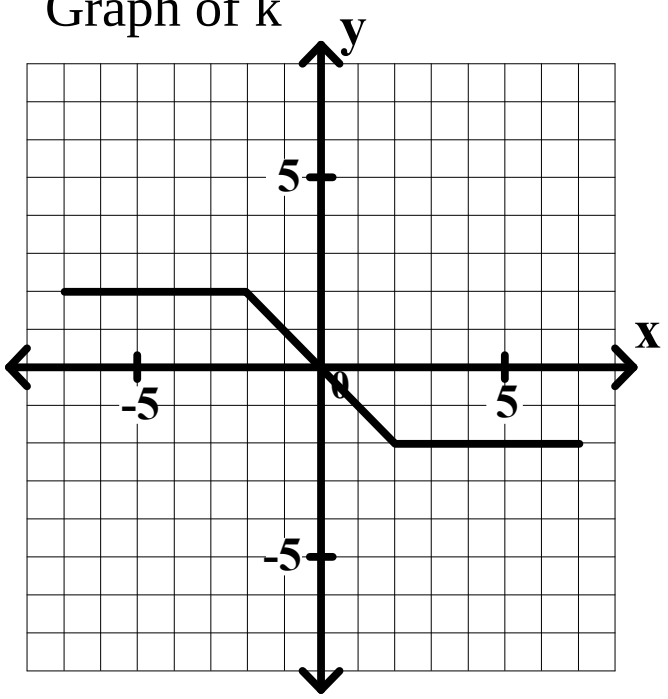

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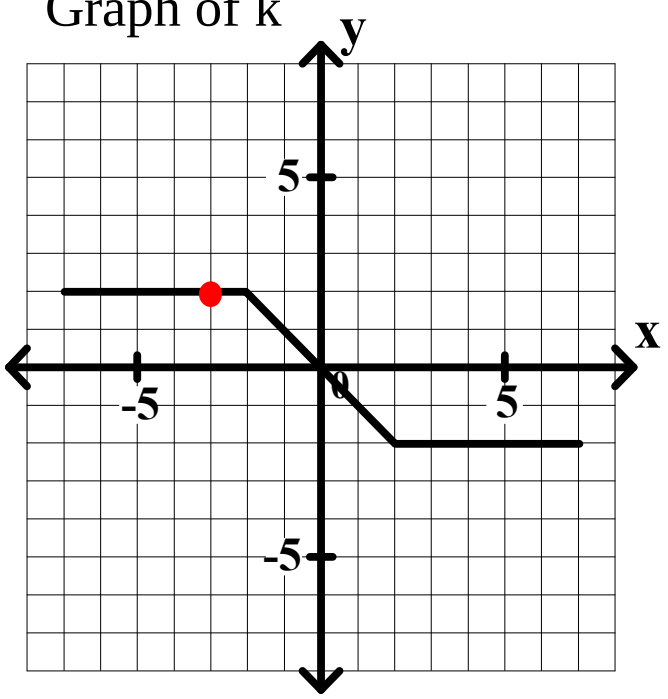

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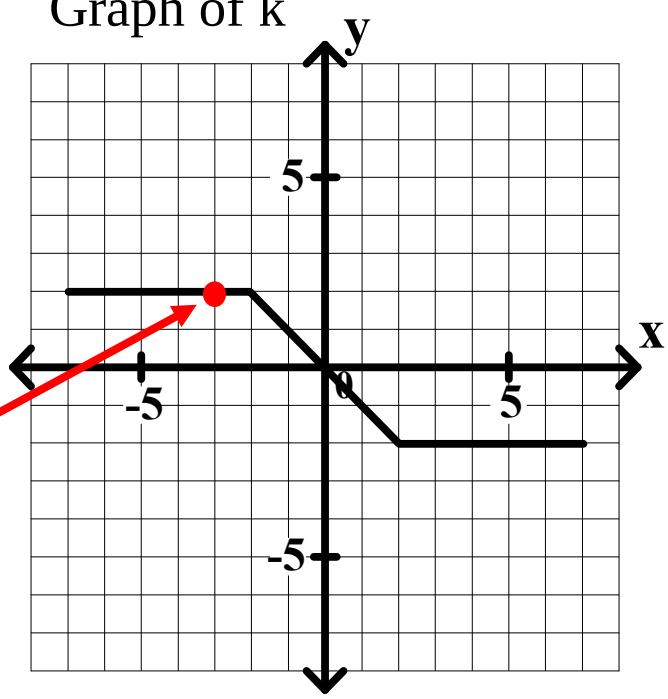

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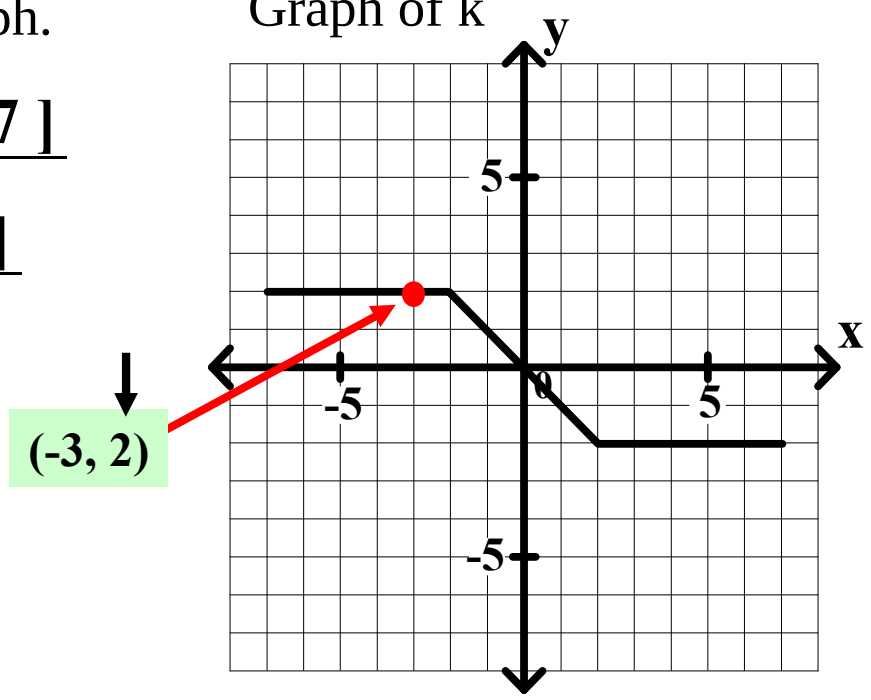

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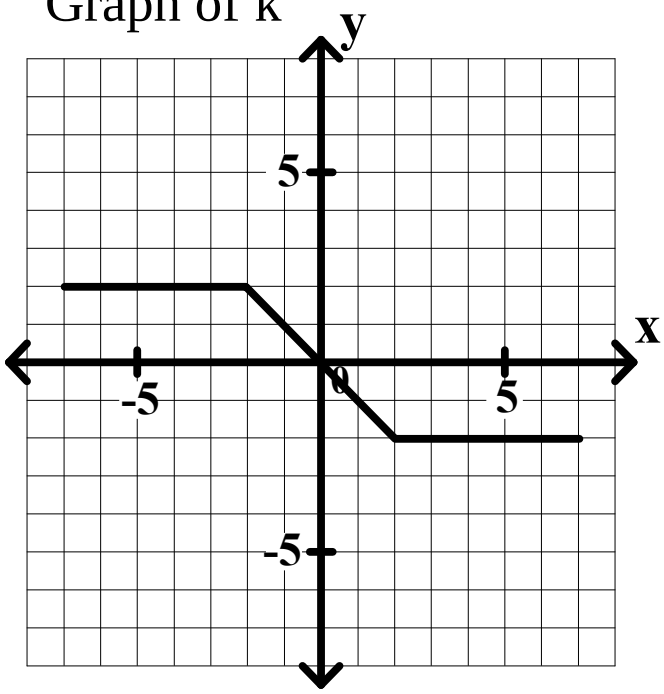

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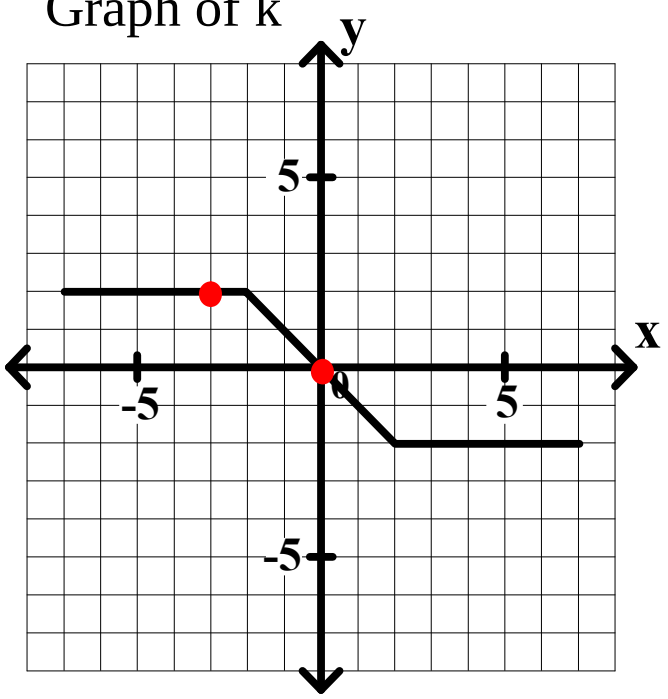

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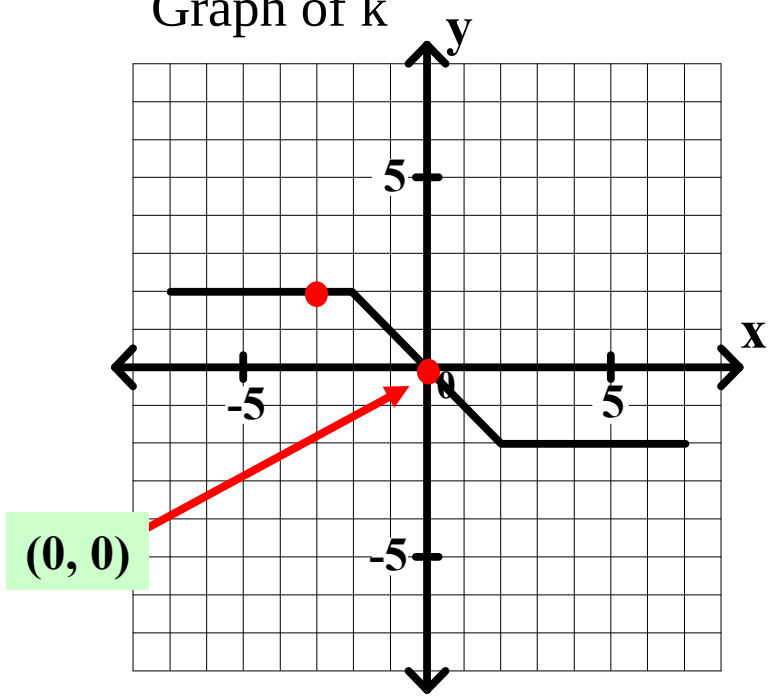

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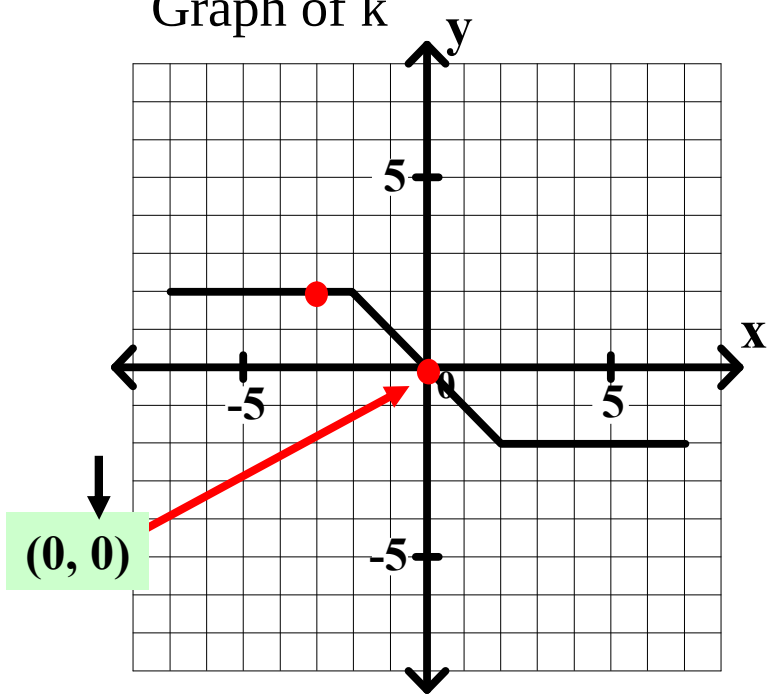

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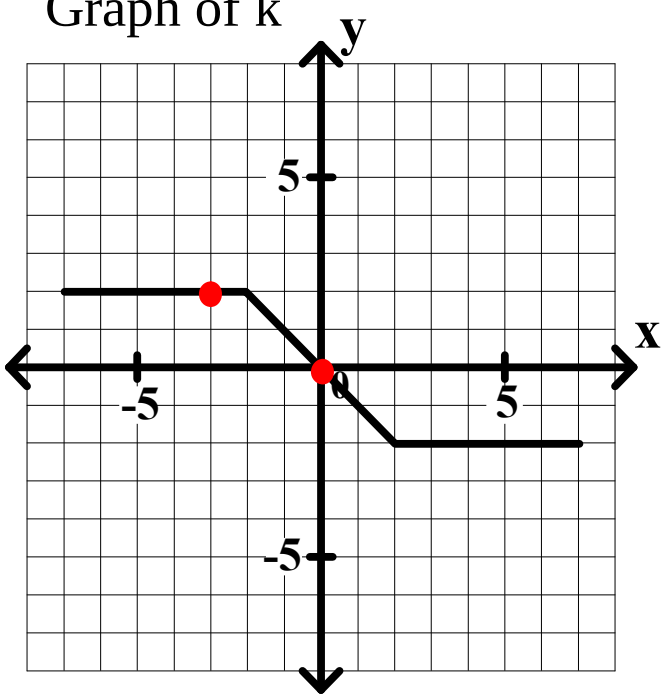

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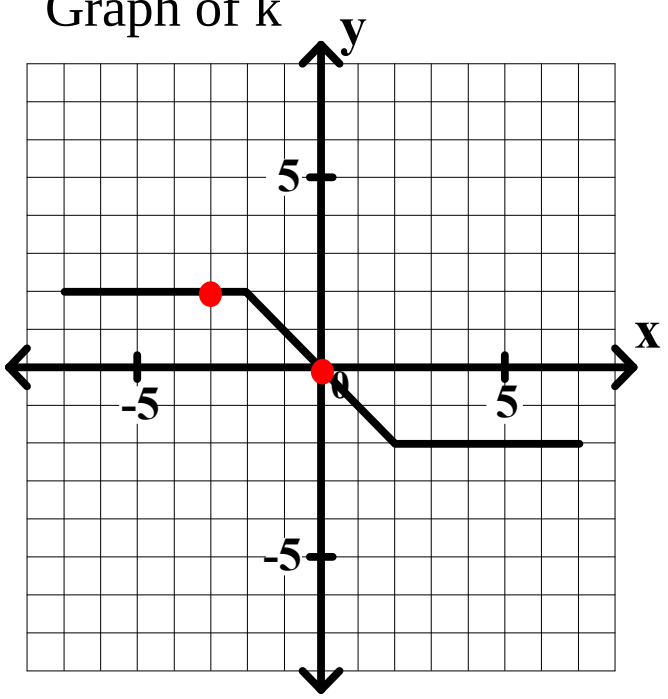

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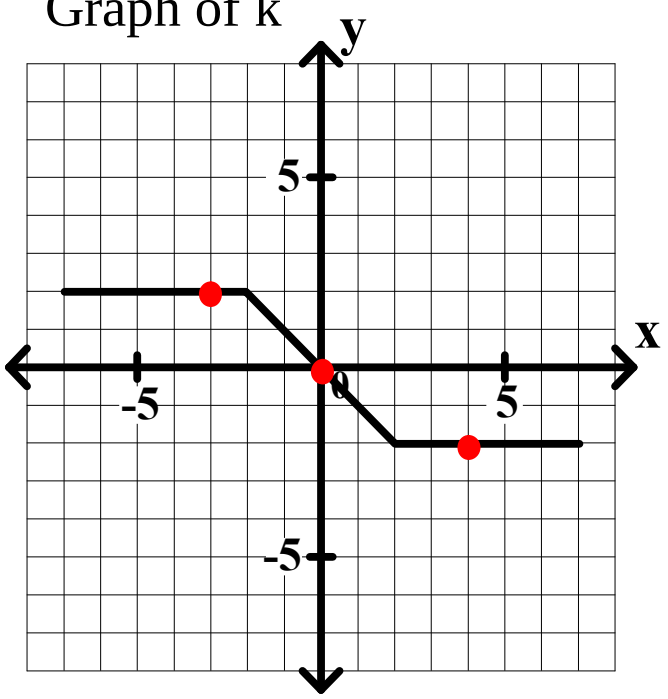

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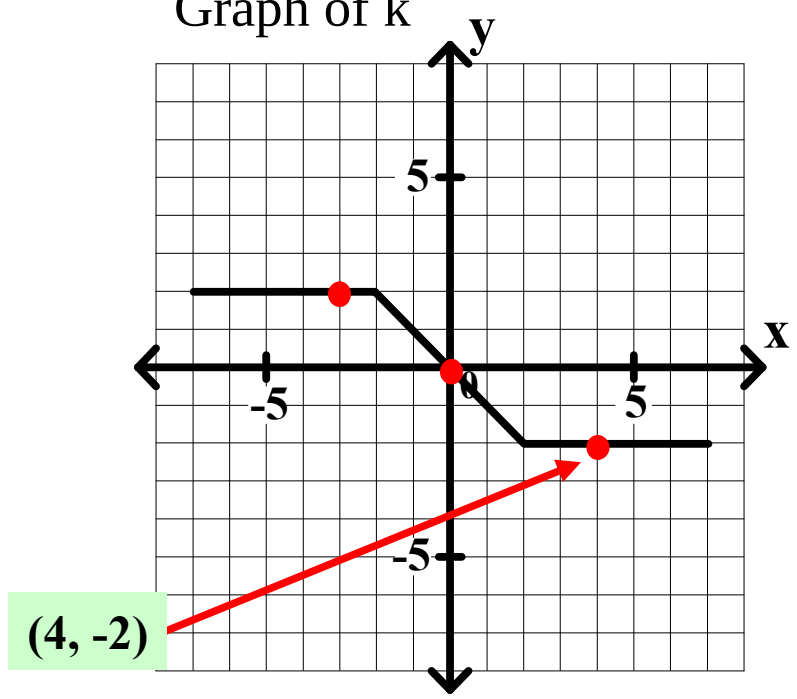

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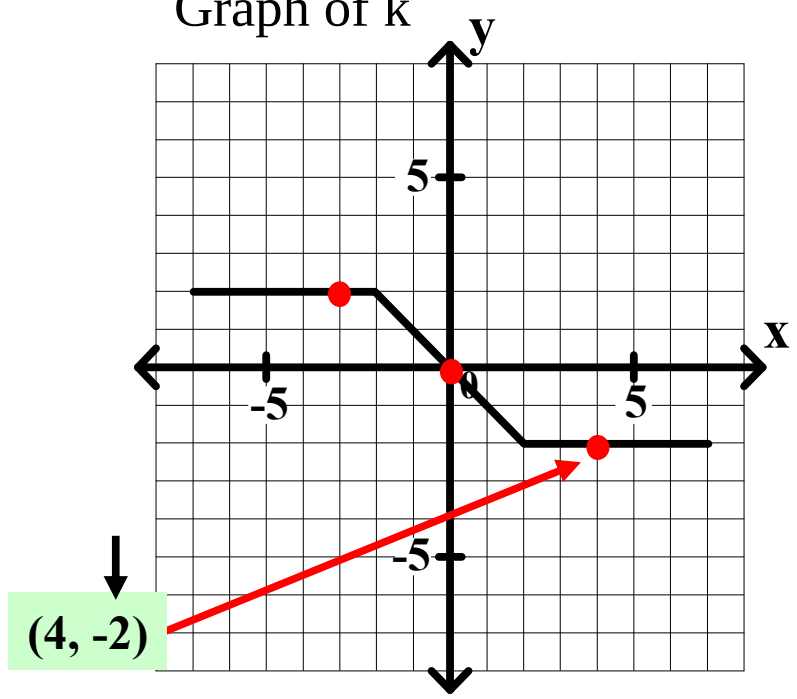

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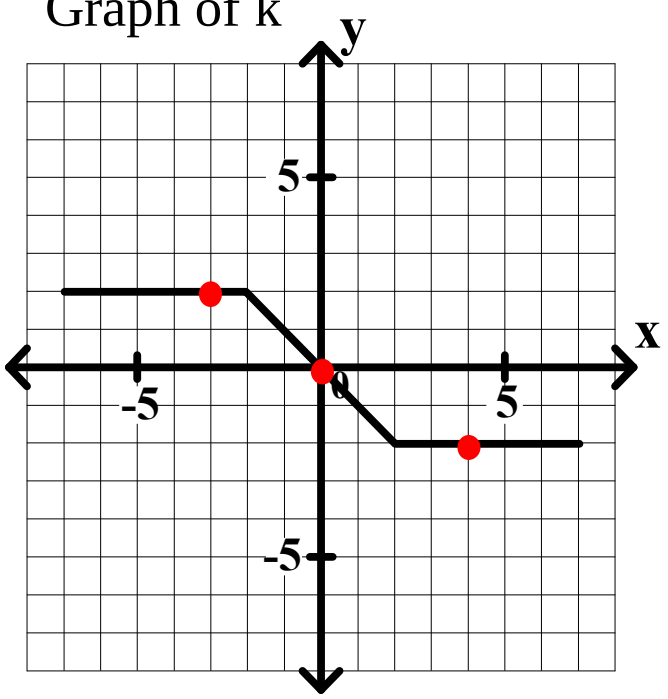

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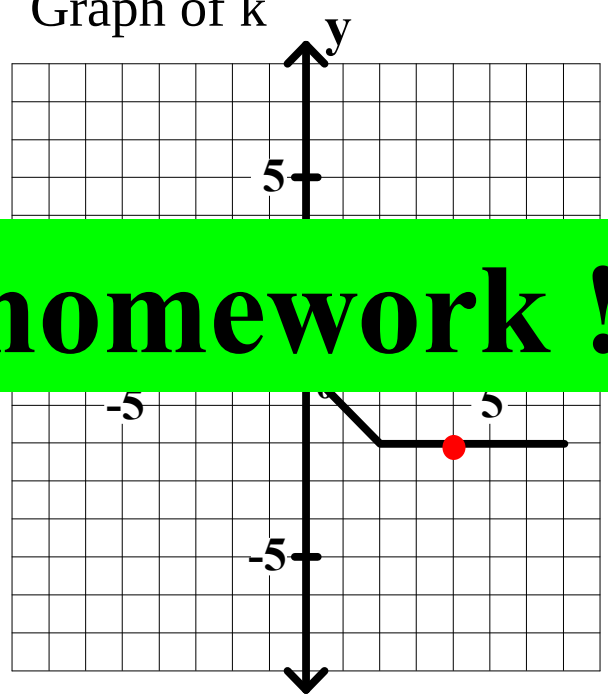

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Good luck on your homework !!

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