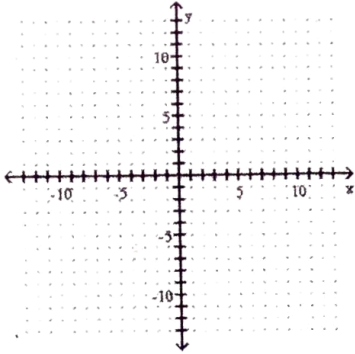


NAME: \_\_\_\_\_

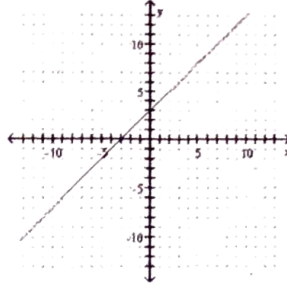
# Unit 4 Test Review

①

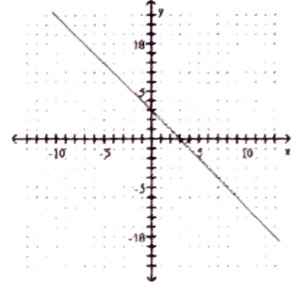
$$x + y = -3$$



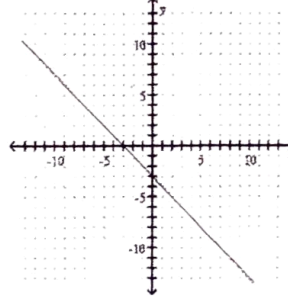
A)  $m = 1$ ; y-Intercept:  $(0, 3)$



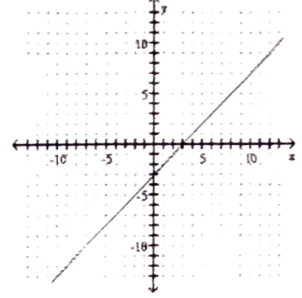
B)  $m = -1$ ; y-Intercept:  $(0, 3)$



C)  $m = -1$ ; y-Intercept:  $(0, -3)$

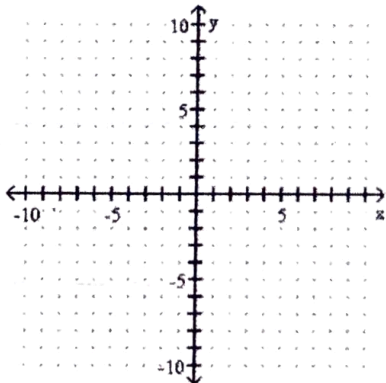


D)  $m = 1$ ; y-Intercept:  $(0, -3)$

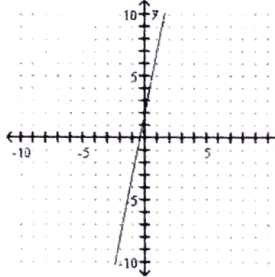


②

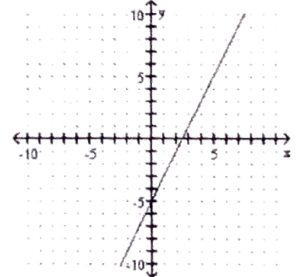
$$y = 2x - 5$$



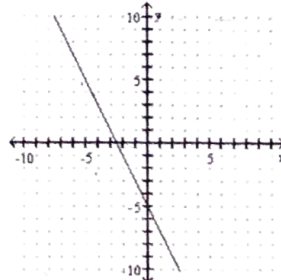
A)  $m = 5$ , y-Intercept:  $(0, 2)$



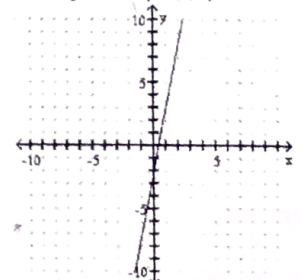
B)  $m = 2$ , y-Intercept:  $(0, -5)$



C)  $m = 5$ , y-Intercept:  $(0, 2)$

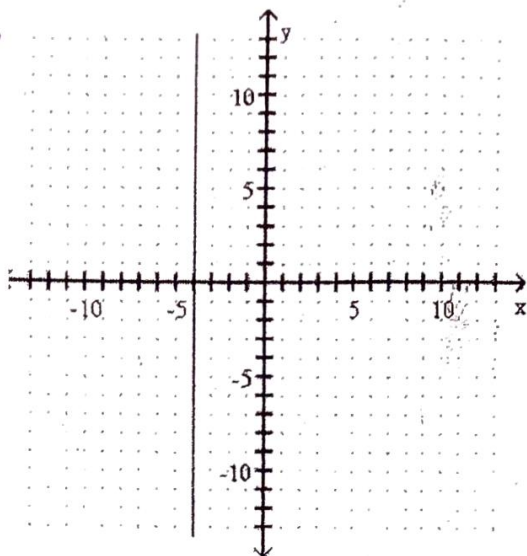


D)  $m = 2$ , y-Intercept:  $(0, 5)$



Write the equation of the line.

3.



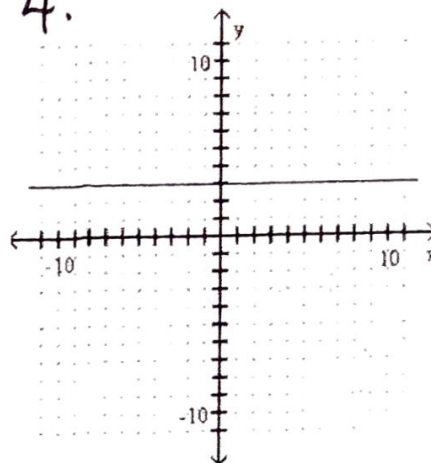
A)  $y = -4$

B)  $x = -4$

C)  $y = 4$

D)  $x = 4$

4.



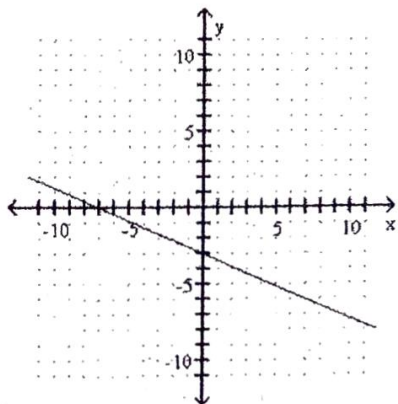
A)  $y = 3$

B)  $x = 3$

C)  $y = -3$

D)  $x = -3$

5. Write the equation of the line in slope-intercept form.



A)  $y = -7x - 7$

B)  $y = -\frac{3}{7}x - 3$

C)  $y = -\frac{7}{3}x - 7$

D)  $y = -x - 3$

6. What is the <sup>y</sup>x and <sup>y</sup>int: <sup>x</sup>int: intercept of  $x - 3y = -6$

A)  $(-6, 2)$

$(2, -6)$

B)  $(2, 0)$

$(0, -6)$

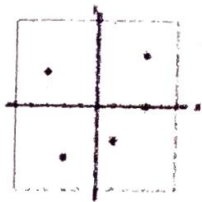
C)  $(-6, 0)$

$(0, -2)$

D)  $(0, 2)$

$(-6, 0)$

Question 7.

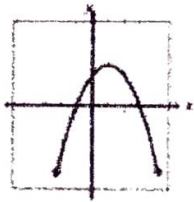


Q. Is this graph a function or not a function?

Function

Not a function

Question 8

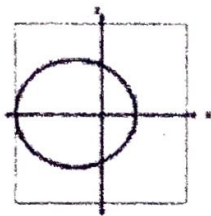


Q. Is this graph a function or not a function?

Function

Not a Function

Question 9

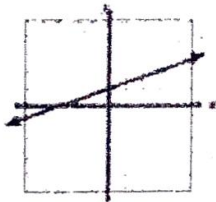


Q. Is this graph a function or not a function?

Function

Not a Function

Question 10



Q. Is this graph a function or not a function?

answer choices

Function

Not a Function

Question: 11

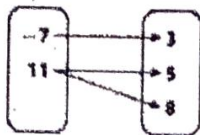
input	Output
6	3
7	1
8	-3

Q. Determine if the following relation describes a function

Function

Not a Function

Question: 12



Q. Is the relation a function? Why.

- A. Yes, because the x-value 11 has two y-values pair with it.
- B. No, because the x-value 11 has two y-values pair with it.
- C. Yes, because each x-value has only one y-value paired with it.
- D. No, because each x-value has only one y-value paired with it.

13. Which relation is NOT a function?

- A.  $\{(1,-5), (3,1), (-5,4), (4,-2)\}$
- B.  $\{(1,-5), (-1,6), (1,5), (6,-3)\}$
- C.  $\{(2,7), (3,7), (4,7), (5,8)\}$
- D.  $\{(3,-2), (5,-6), (7,7), (8,8)\}$

14. Which of the following relations is a function?

- A)  $\{(3, 1), (4, 1), (3, 2)\}$
- B)  $\{(1, 1), (1, 2), (1, 3)\}$
- C)  $\{(0, 0), (0, 1), (1, 2)\}$
- D)  $\{(0, 0), (1, 2), (2, 3)\}$

15. What is the domain of this function:  $\{(0, 1), (2, 3), (-1, 3), (4, 5)\}$ ?

- A)  $\{1, 3, 5\}$
- B)  $\{3\}$
- C)  $\{0, 2\}$
- D)  $\{0, 2, -1, 4\}$

16. What is the range of this function:  $\{(4, 8), (9, 2), (-3, -4)\}$

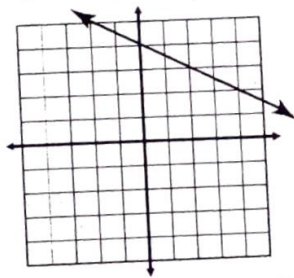
- A)  $\{8\}$
- B)  $\{8, 2, -4\}$
- C)  $\{4, 9, -3\}$
- D)  $\{(4, 8), (9, 2), (-3, -4)\}$

17. Given  $f(x) = 2x + 1$ , find  $f(-3)$ .

- A) 3
- B) 5
- C) 1
- D) 8

18.

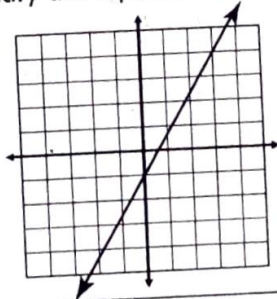
Identify the equation of the line graphed below. Prove by converting!



- A.  $2x + y = 4$
- B.  $2x - y = 4$
- C.  $x + 2y = 8$
- D.  $x - 2y = 8$

19.

Identify the equation of the line graphed below. Prove by converting!

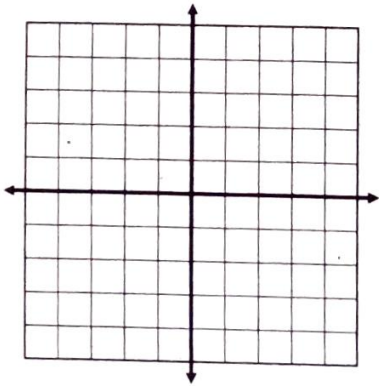


- A.  $3x + 5y = 5$
- B.  $3x - 5y = 5$
- C.  $5x + 3y = 3$
- D.  $5x - 3y = 3$

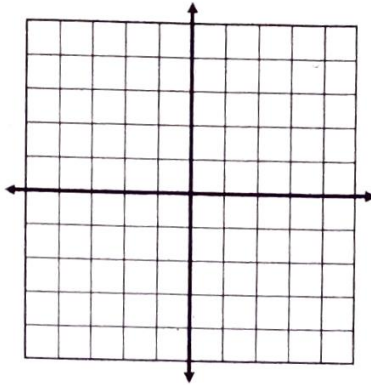


Graph the following linear inequalities.

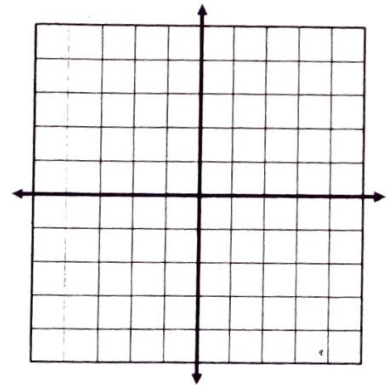
20.  $y \leq -2x + 1$



21.  $2x - 5y < 20$

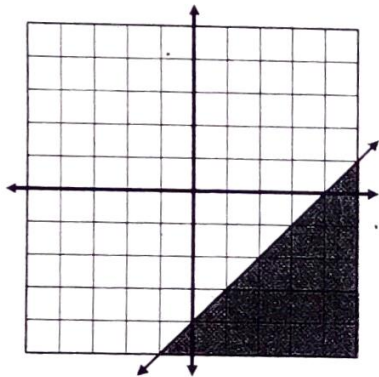


22.  $x - 3y < 0$



Select the inequality that best represents the graph.

23.



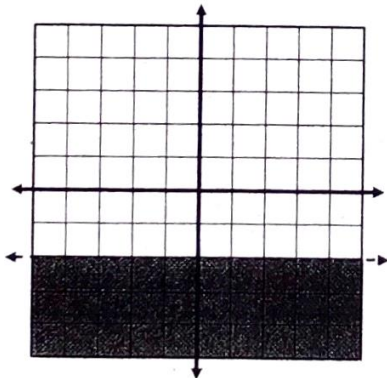
part I.

- A.  $x + y \leq -4$
- B.  $x + y \geq -4$
- C.  $x - y \leq 4$
- D.  $x - y \geq 4$

part II. which point is in the solution?

- A.  $(4, 0)$
- B.  $(0, -3)$
- C.  $(2, -1)$
- D.  $(4, 4)$

24.



part I.

- A.  $x < -2$
- B.  $y < -2$
- C.  $x > -2$
- D.  $y > -2$

part II. which point is NOT in the solution?

- A.  $(4, -6)$
- B.  $(-5, -2)$
- C.  $(0, -3)$
- D.  $(2, -6)$