WARM UP

Write an equation for each function. Tell what each variable you use represents.

1. The length of a box is 4 in. more than three times the height.

2. The number of cards is 3 less than the number of stamps.

MATH COURSE I

Graph Functions

November 28, 2012

Mrs. Culverwell

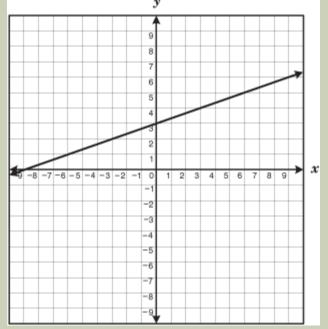
VOCABULARY

<u>Ordered Pair</u>: numbers used to locate a point on a coordinate grid (x,y)

Linear Function: an equation when graphed, forms a straight line

<u>x axis</u>: horizontal (left to right)

y axis: vertical (up and down)



SOLUTIONS

Use the given x-values to write the solutions of the equation as ordered pairs.

y = 4x + 2; x = 1, 2, 3, 4	x	4x + 2	у
y ix · _, x _, _, c, o, i	1	4(1) + 2	
Ordered Pairs:	2		
(1,)	3		
(2,)	4		
(3,)			

(4,)

$$y = 5x + 3;$$
 $x = 2, 3, 4$

$$y = 6x - 2;$$
 $x = 3, 4, 5$

IS IT A SOLUTION?

Determine if the ordered pair is a solution.

Example: y = 5x; (4,20)

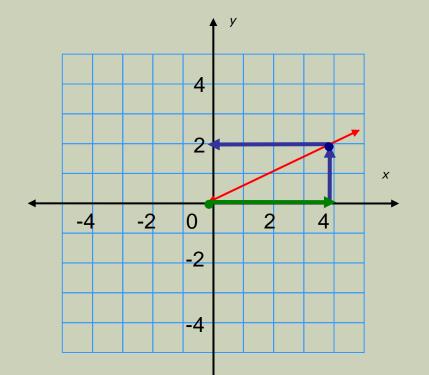
Step 1: Substitution 20 = 5(4) Step 2: Solve 20 = 20 (yes)

Determine if the ordered pair is a solution.

1)
$$y = x + 1$$
; (2,3)
2) $y = 2x - 7$; (6,4)
3) $y = 3x - 12$; (5, 1)

Use the graph of the linear function to find the value of y for the given value of x.

x = 4



Start at the origin and move 4 units right.

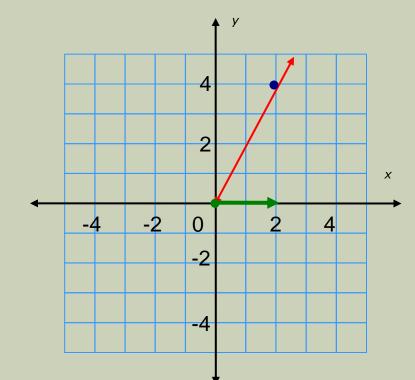
Move up until you reach the graph. Move left to find the y-value on the y-axis.

When x = 4, y = 2.

The ordered pair is (4, 2).

Use the graph of the linear function to find the value of y for the given value of x.

x = 2

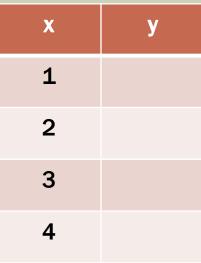


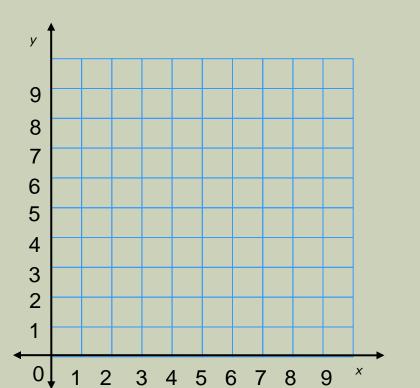
GRAPH FUNCTIONS

Example: y = 3x + 2

Step 1: Create a table.Step 2: Write ordered pairs.Step 3: Graph ordered pairs.

Step 4: Draw the line.





y = 2x + 5
y = 3x + 3
y = 8 - x
y = x + 4
y = 2x - 1

