

MasterMath

Equations and Functions

Name _____
Date _____

1. Please convert these equations to function form

Equation	Function
$2x + 4 = 2y$	$y = x + 2$
$x - y = 8$	$y = x - 8$
$3x + 9 = 3y$	$y = x + 3$
$15x + 45 = 15y$	$y = x + 3$
$y - 15 = 2x + 6$	$y = 2x + 21$

2. Find the slope and the y-intercept of these functions

Function	Slope	y-intercept
$y = 2x + 6$	2.0	6
$y = 16 - x$	-1.0	16
$y = .5x - 12$	0.5	-12
$y = 3x - 1/2$	3.0	$-1/2$
$y = 16 - 2.5x$	-2.5	16

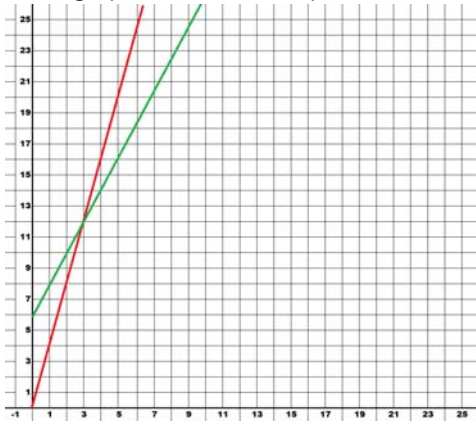
3. Solve this equation using a table. Check your solution.

$$8x = 4x + 8$$

x	1	2	3	4	5	6
8x	8	16	24	32	40	48
4x + 8	12	16	20	24	28	32

2.0

4. Use a graph to solve this equation: $2x + 6 = 4x$

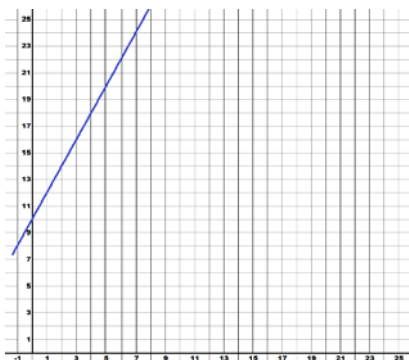


$x = 3$

5. Use algebra to solve this equation: $.5x + 3.5 = 4x - 7$

$x = 3$

6. Write an equation in slope-intercept form that describes this graph:



$y = 2x + 10$