Lines: Lesson 1

Introduction to Lines: Worksheet 1

Answers

Name: _____

List some of the infinite answers to $y = 4x - 7$

x = 0 y = -7

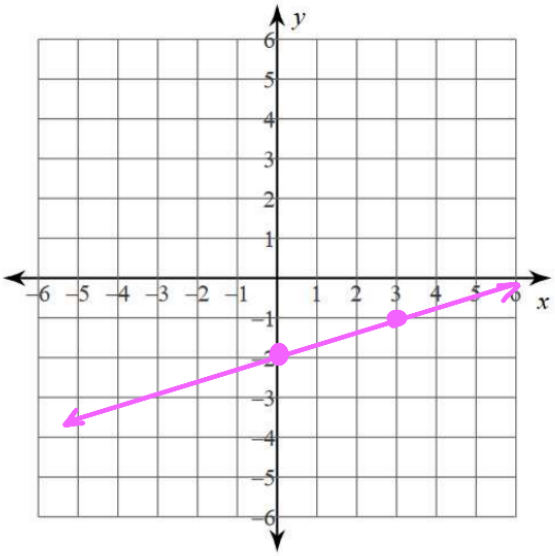
x = 1 y = -3

answers may vary!

Plot these lines:

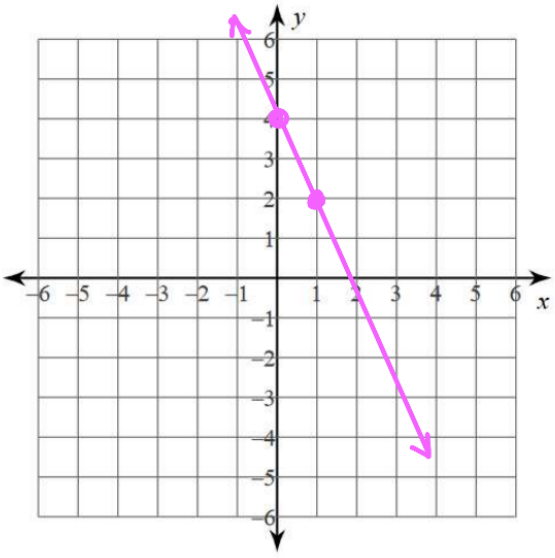
$y = \frac{1}{3}x - 2$

x	$\frac{1}{3}x - 2$	y	point
0	$\frac{1}{3}(0) - 2$	-2	(0, -2)
3	$\frac{1}{3}(3) - 2$ $1 - 2$	-1	(3, -1)



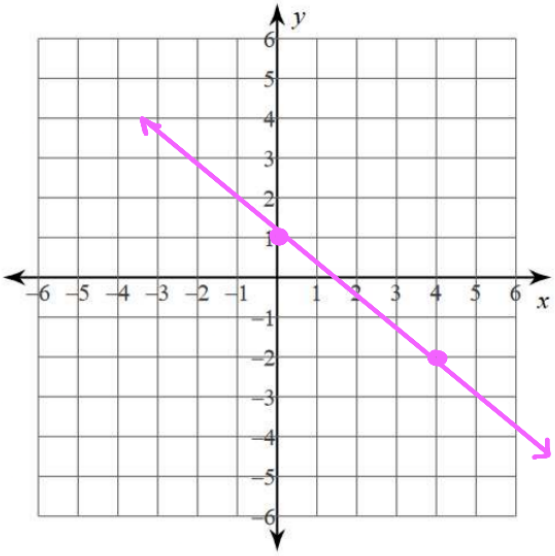
$y = -2x + 4$

x	-2x + 4	y	Point
0	-2(0) + 4	4	(0, 4)
1	-2(1) + 4 -2 + 4	2	(1, 2)



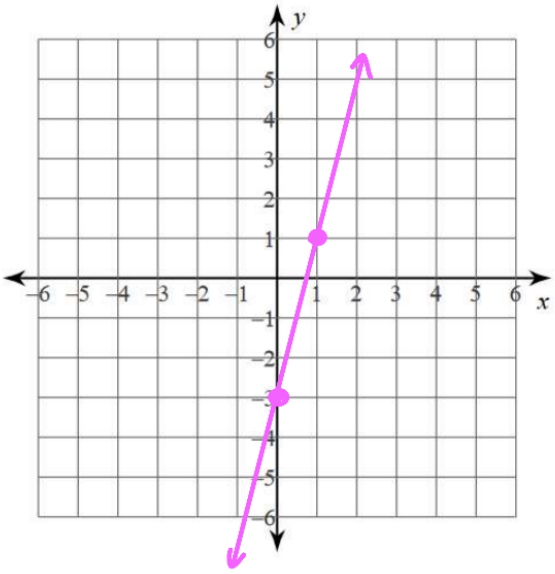
$y = \frac{-3}{4}x + 1$

x	$-\frac{3}{4}x+1$	y	Point
0	$-\frac{3}{4}(0)+1$	1	(0, 1)
4	$-\frac{3}{4}(\frac{4}{1})+1$ $-3+1$	-2	(4, -2)



$y = 4x - 3$

x	$4x-3$	y	Point
0	$4(0)-3$	-3	(0, -3)
1	$4(1)-3$ $4-3$	1	(1, 1)



Which of these fit on the line $y = 5x - 2$?

A. (1, 7) $7 \stackrel{?}{=} 5(1)-2$ no

B. (5, 20) $20 \stackrel{?}{=} 5(5)-2$ no

C. (-2, -12) $-12 \stackrel{?}{=} 5(-2)-2$ yes!

D. (0, -1)

Which of these DOES NOT fit on the line $y = \frac{-2}{5}x + 1$?

A. (0, 1) $1 \stackrel{?}{=} -\frac{2}{5}(0)+1$ yes

B. (5, -2) $-2 \stackrel{?}{=} -\frac{2}{5}(5)+1$ $-2 \neq -1$ doesn't fit!

C. $(-1, 1\frac{2}{5})$ $1\frac{2}{5} \stackrel{?}{=} -\frac{2}{5}(-1)+1$ $1\frac{3}{5} \stackrel{?}{=} \frac{2}{5}+1$ fits

D. (10, -3) $-3 \stackrel{?}{=} -\frac{2}{5}(10)+1$ $-3 = -4+1$ fits