

Name: * NOTES *
 Geometry L 2.1

Date: _____
 Mrs. DeNeef

Graphing Linear Equations by Hand

Graph each equation.

1. $y = -3x$

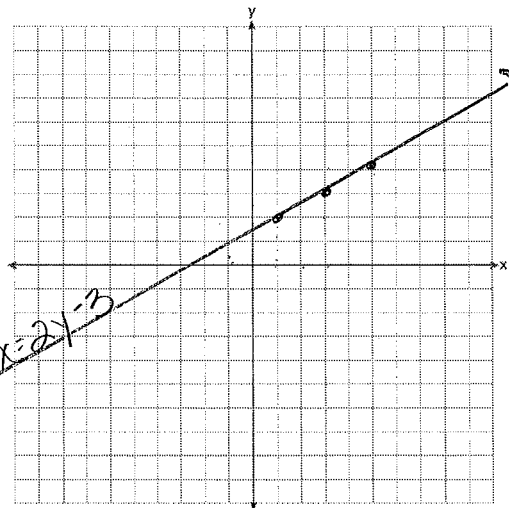
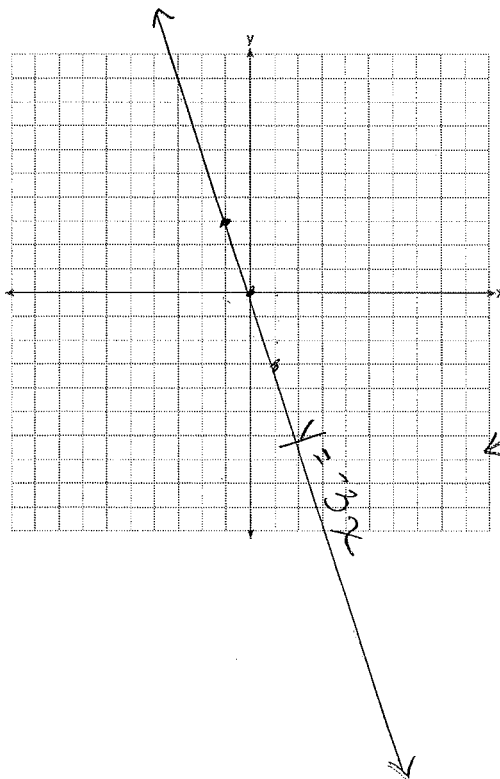
x	$-3x$	y
-1	$-3(-1)$	3
0	$-3(0)$	0
1	$-3(1)$	-3

2. $x = 2y - 3$

$$\frac{x+3}{2} = y$$

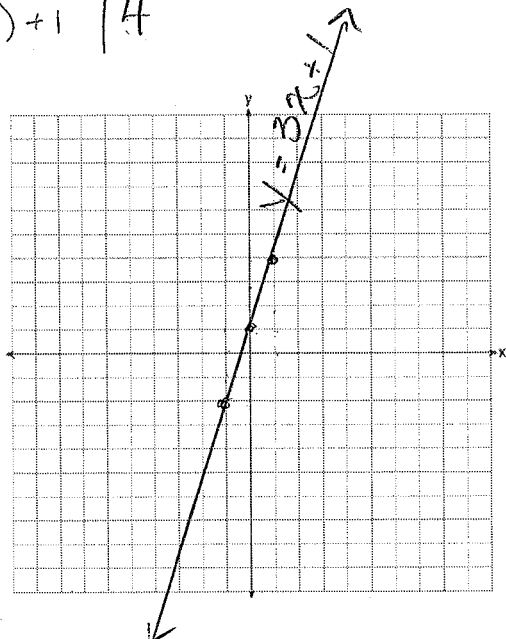
$$\frac{1}{2}(x+3)$$

x	$\frac{1}{2}(x+3)$	y
-1	$\frac{1}{2}(-1+3)$	1
0	$\frac{1}{2}(0+3)$	1.5
1	$\frac{1}{2}(1+3)$	2
2	$\frac{1}{2}(2+3)$	2.5
3	$\frac{1}{2}(3+3)$	3
4	$\frac{1}{2}(4+3)$	3.5
5	$\frac{1}{2}(5+3)$	4



3. $y = 3x + 1$

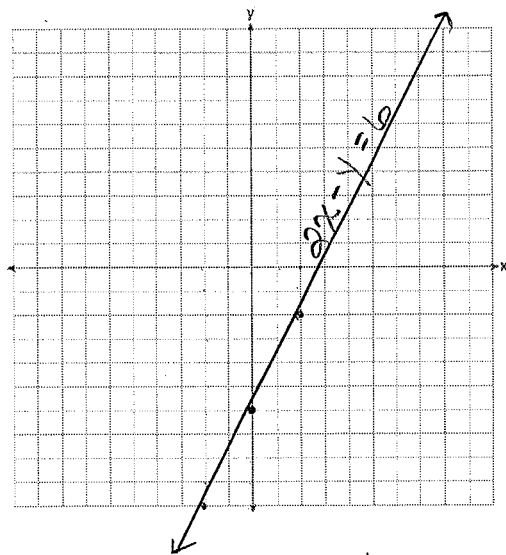
x	$3x + 1$	y
-1	$3(-1) + 1$	-2
0	$3(0) + 1$	1
1	$3(1) + 1$	4



4. $2x - y = 6$

$2x - 6 = y$

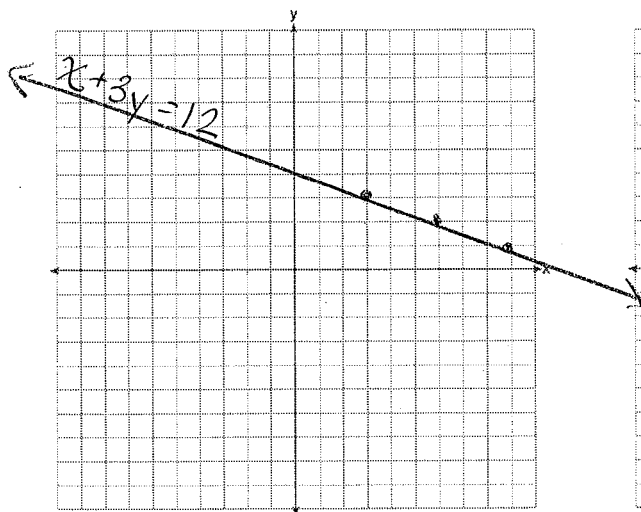
x	$2x - 6$	y
-2	$2(-2) - 6$	-10
0	$2(0) - 6$	-6
2	$2(2) - 6$	-2



5. $x + 3y = 12$

$y = \frac{1}{3}(-x + 12)$

x	$\frac{1}{3}(-x + 12)$	y
3	$\frac{1}{3}(-3 + 12)$	3
6	$\frac{1}{3}(-6 + 12)$	2
9	$\frac{1}{3}(-9 + 12)$	1



6. $2x = y - 4$

$y = 2x + 4$

x	$2x + 4$	y
-2	$2(-2) + 4$	0
0	$2(0) + 4$	4
2	$2(2) + 4$	8

