Algebra 1 Name _____ ID: 1

Date NOV 2023 Period ____

4.2 Practice: TABLE METHOD

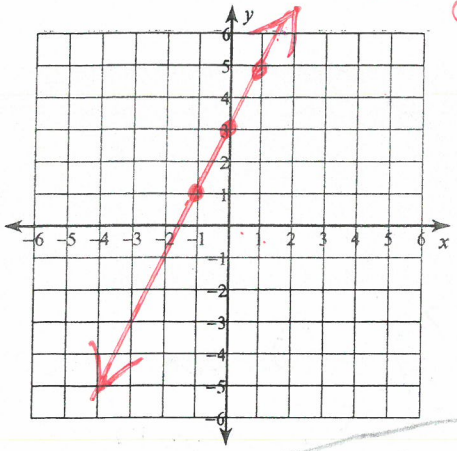
Graph each line...

(1) rewrite in finction notation; (2) create a table with 3 points; (3) graph the line.

WITH NO DECIMALS

1) $y = 2x + 3$

before x is an integer souse
$x = -1, 0, 1$



x	y
-1	1
0	3
1	5

mental work

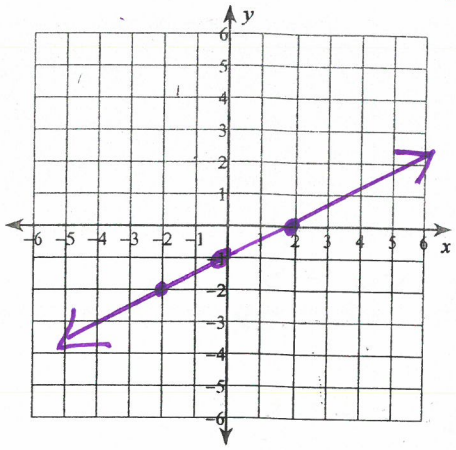
$y = 2(-1) + 3 = 1$

$y = 2(0) + 3 = 3$

$y = 2(1) + 3 = 5$

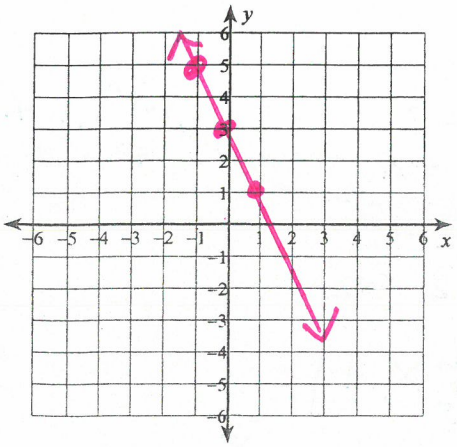
2) $y = \frac{1}{2}x - 1$

When the # before x is a fraction, use MULTIPLES OF DENOMINATOR



x	y
2	0
0	-1
-2	-2

3) $2x + y = 3$ ← PUT INTO $y = mx + b$ (see below)



$2x + y = 3$

$-2x \quad -2x$

$y = -2x + 3$

x	y
-1	5
0	3
1	1

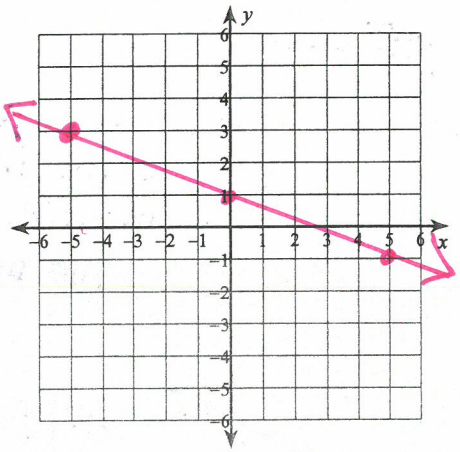
GRAPHING USING THE TABLE METHOD

1. PUT EQ IN $y =$ _____
2. Create a table with 3 ordered pairs

x			
y			

3. PICK EASY X VALUES
   - EX1 use $x = -1, 0, 1$
   - EX2 use $x = -2, 0, 2$
4. PLOT THE POINTS
5. DRAW A LONG STRAIGHT LINE WITH ARROWS

4) $2x + 5y = 5$



(4) $2x + 5y = 5$

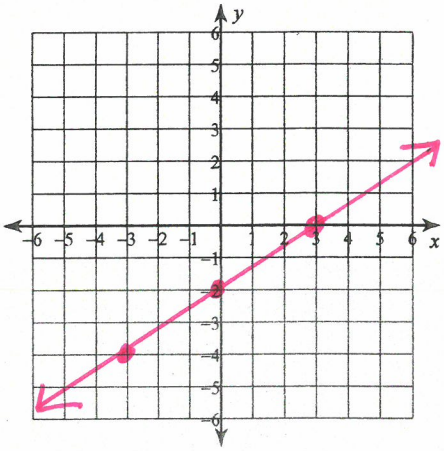
$-2x \quad -2x$

$\frac{5y}{5} = \frac{-2x}{5} + \frac{5}{5}$

S/I: $y = \frac{-2}{5}x + 1$

x	-5	0	5
y	3	1	-1

5) $2x - 3y = 6$



(5) $2x - 3y = 6$

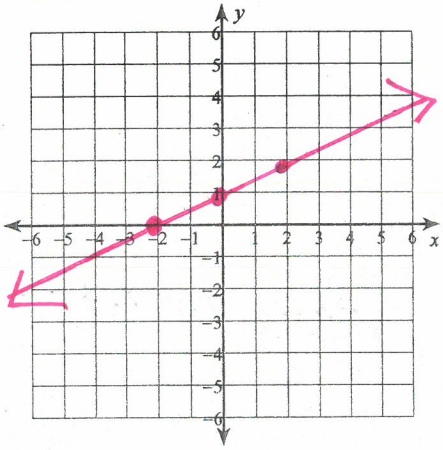
$-2x \quad -2x$

$\frac{-3y}{-3} = \frac{-2x}{-3} + \frac{6}{-3}$

S/I: $y = \frac{2}{3}x - 2$

x	-3	0	3
y	-4	-2	0

6) $x - 2y = -2$



(6) $x - 2y = -2$

$-x \quad -x$

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

implied -1 so $\frac{-1}{-2}x = \frac{1}{2}x$

S/I: $y = \frac{1}{2}x + 1$

x	-2	0	2
y	0	1	2