

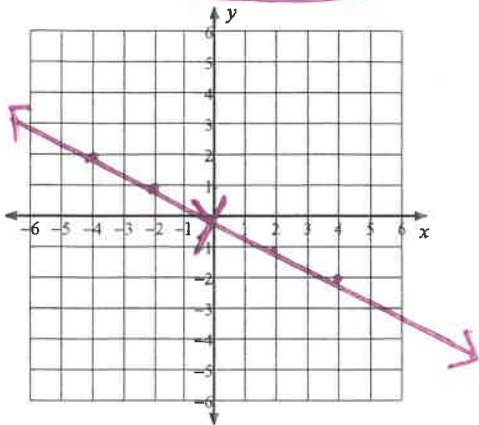
4-1 to 4-5 Review A (version 2)

Graph the linear function using slope and y-intercept. **Identify the slope and y-intercept.**

① Graph with S/I
 $y = mx + b$

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

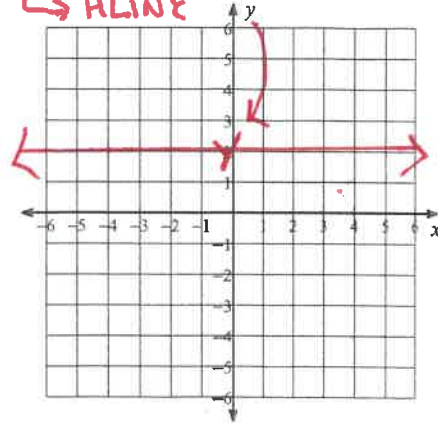
$m = -\frac{1}{2}$ $b = 0$



2) $y = 2$

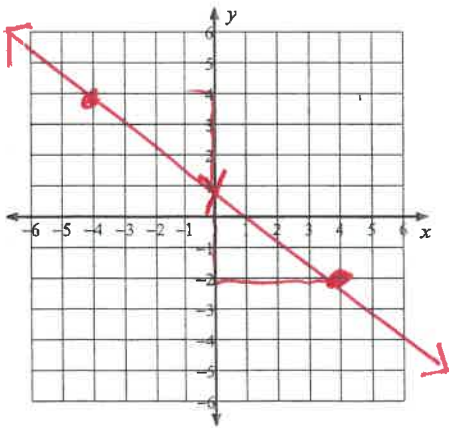
$b = 2$

↳ HLINE



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

$m = -\frac{3}{4}$ $b = 1$



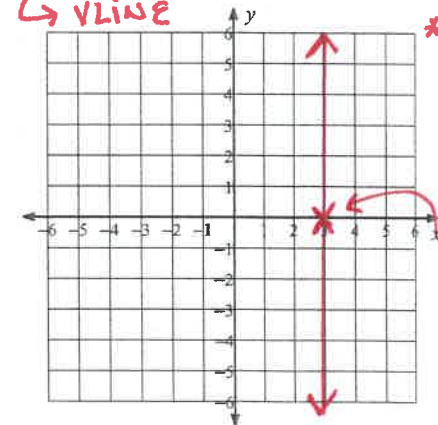
4) $x = 3$

↳ VLINE

*NO Y-INTERCEPT

*X-INTERCEPT IS (3,0)

$m = \text{UNDEFINED}$



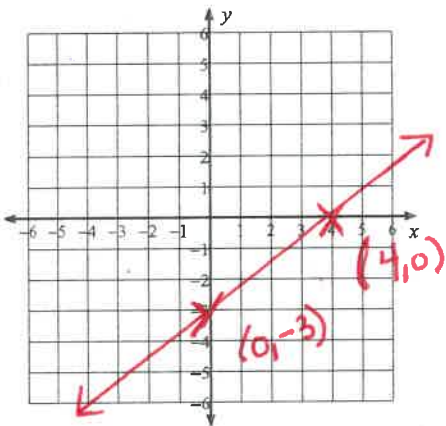
2
GRAPH
w/ INTERCEPTS

Graph the linear function using intercept.

Identify the x and y intercepts

with X and Y; AND
Label ordered
Pairs on Graph

5) $3x - 4y = 12$

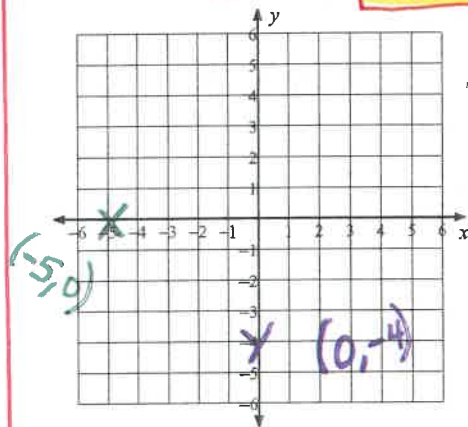


X: $(-, 0)$

$\frac{3x}{3} = \frac{12}{3}$
 $x = 4$

Y: $\frac{-4y}{-4} = \frac{12}{-4}$
 $y = -3$

6) $4x + 5y = -20$



X: $\frac{4x}{4} = \frac{-20}{4}$
 $x = -5$

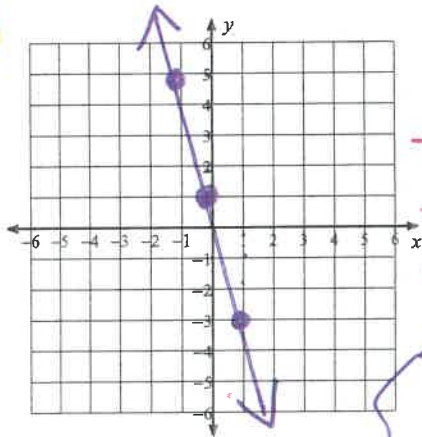
Y: $\frac{5y}{5} = \frac{-20}{5}$
 $y = -4$

Graph the linear function using table method Create a table with 3 points.

PICK 3 easy X values

FRACTION - PICK
MULTIPLES OF THE
Denominator

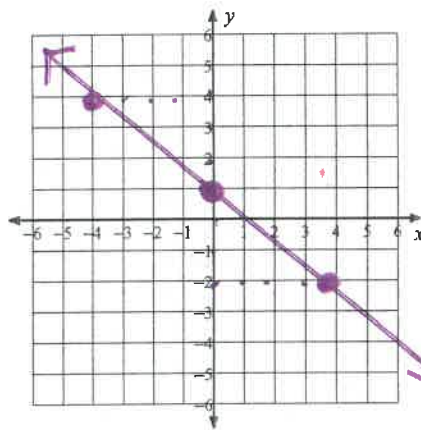
7) $y = -4x + 1$



x	y
-1	5
0	1
1	-3

Clearly
Mark the
3 points

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



x	y
-4	4
0	1
4	-2

COMPLETE ON GRAPH PAPER. Graph the linear function using slope-intercept method.
Identify the slope and y-intercept

9) $4x - 3y = 12$

10) $x + 3y = 3$

4-1 to 4-5 Review A (Version 2)

④ GRAPHING WITH SLOPE-INTERCEPT GIVEN AN EQUATION IN STANDARD FORM

#9

$$4x - 3y = 12$$

STEP 1 put in $y = mx + b$ Form

STEP 1

STD Form: $4x - 3y = 12$

$$\begin{array}{r} 4x - 3y = 12 \\ -4x \quad -4x \\ \hline -3y = -4x + 12 \\ \quad -3 \quad -3 \quad -3 \end{array}$$

STEP 2 state m and b

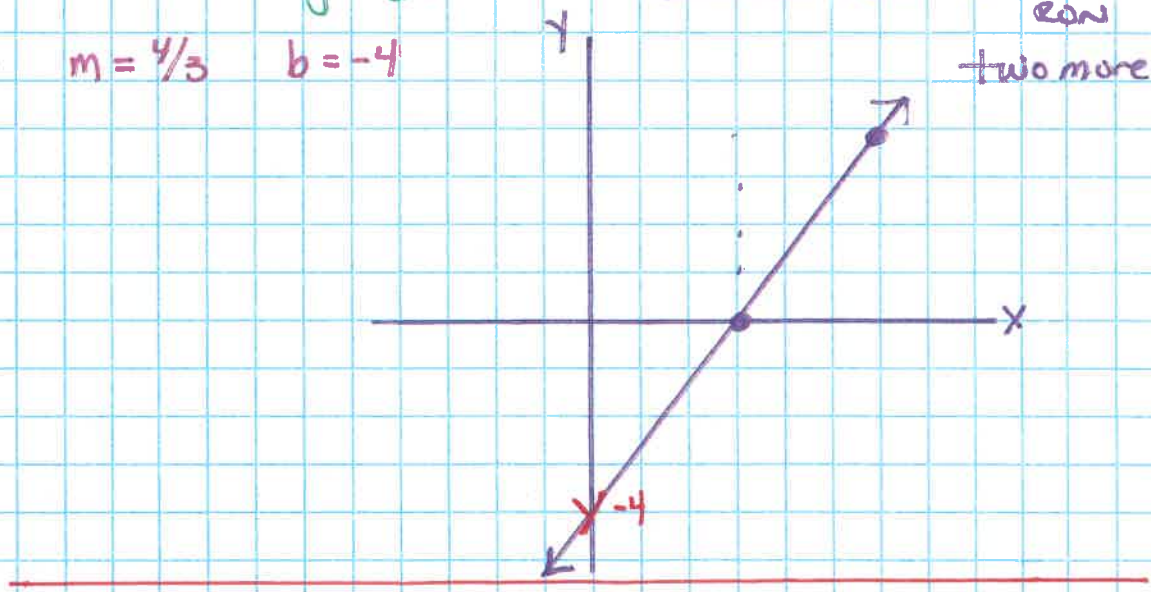
STEP 3 Label yint with Y ON GRAPH

S/I Form: $y = \frac{4}{3}x - 4$

STEP 4 use $m = \frac{\text{Rise}}{\text{Run}}$ to find two more points

STEP 2

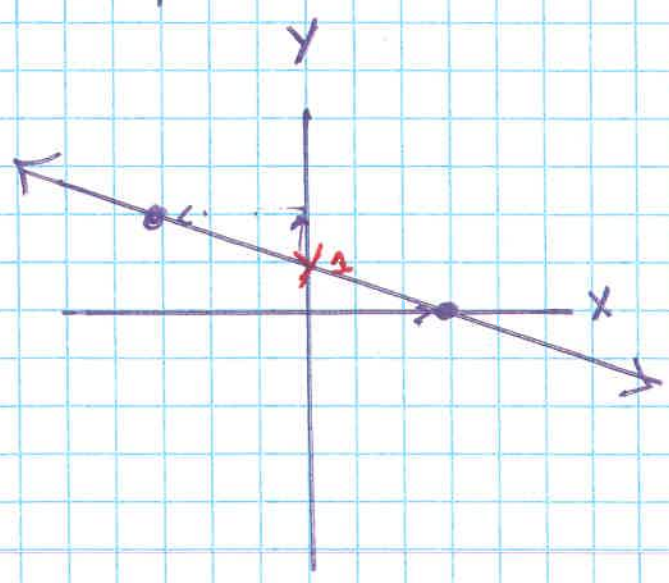
$m = \frac{4}{3}$ $b = -4$



#10

$$\begin{array}{r} x + 3y = 3 \\ -x \quad -x \\ \hline 3y = -x + 3 \\ \frac{3y}{3} = \frac{-x}{3} + \frac{3}{3} \\ \boxed{y = -\frac{1}{3}x + 1} \end{array}$$

$m = -\frac{1}{3}$ $b = 1$



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