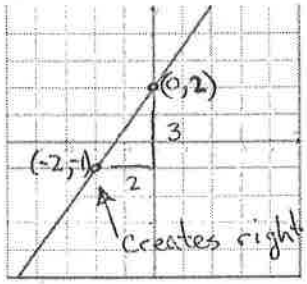
Name:_____ Date:_____

Math 9 HW Section 4.4 Graphing Lines in the form of y=mx+b

$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$

1. Given each graph below, indicate the slope "m" and Y-intercept "b"

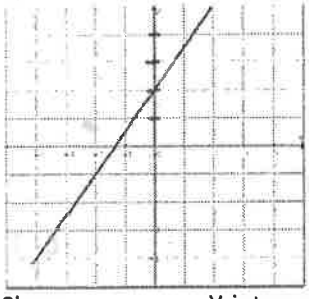
a)



$\frac{2-(-1)}{0-(-2)} = \frac{3}{2}$

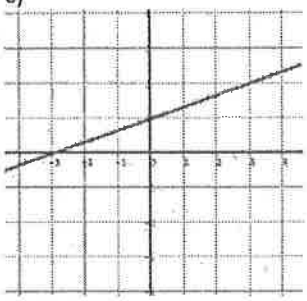
Slope: $\frac{3}{2}$ Y-intercept: 2

b)



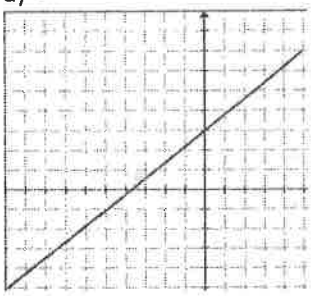
Slope: Y-intercept:

c)



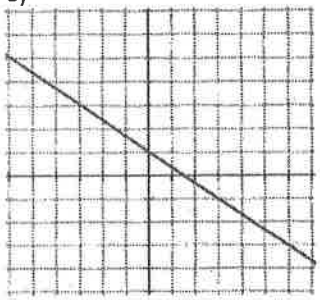
Slope: Y-intercept:

d)



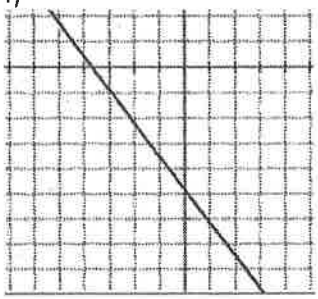
Slope: Y-intercept:

e)



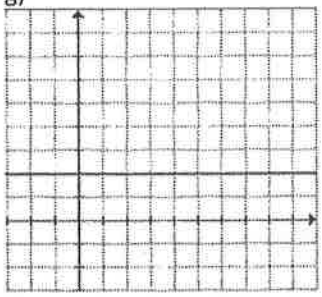
Slope: Y-intercept:

f)



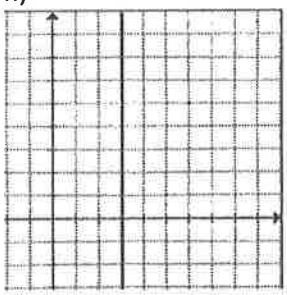
Slope: Y-intercept:

g)



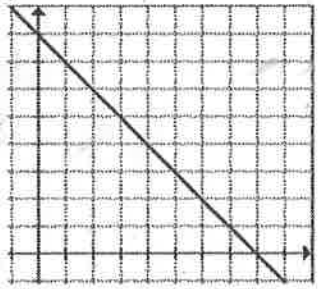
Slope: Y-intercept:

h)



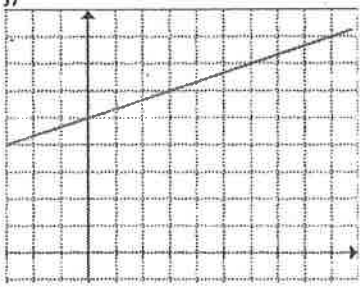
Slope: Y-intercept:

i)



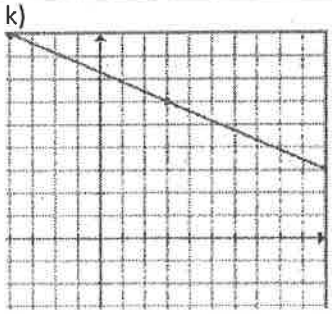
Slope: Y-intercept:

j)



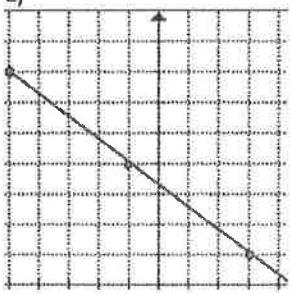
Slope: Y-intercept:

k)



Slope: Y-intercept:

L)



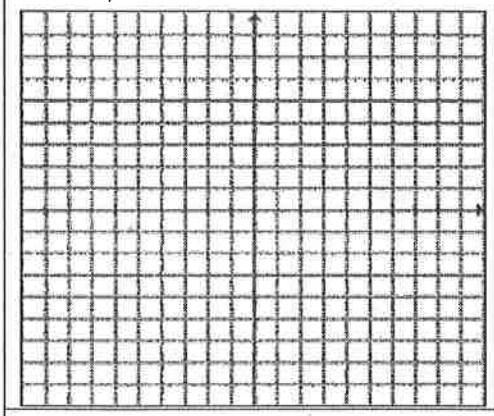
Slope: Y-intercept:

2. Given each line equation, indicate the slope "m" and Y-intercept "b"

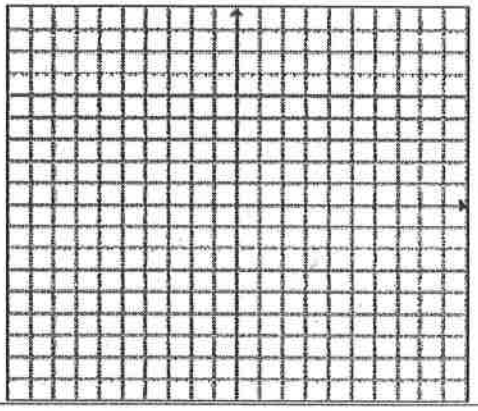
a) $y = \frac{3}{1}x - 2$ slope: 3 y-intercept: −2	b) $y = 4x + 3$ slope: y-intercept:	c) $y = -2x - 4$ slope: y-intercept:	d) $y = 10 - 7x$ slope: y-intercept:
e) $y = \frac{x}{3} - 1$ slope: y-intercept:	f) $y = \frac{4x}{5} + \frac{1}{2}$ slope: y-intercept:	g) $y = \frac{4x+3}{2}$ slope: y-intercept:	h) $y = -\frac{7}{3}x - 8$ slope: y-intercept:
i) $y = -\frac{5}{11}x - (-13)$ slope: y-intercept:	j) $2x + y = 4$ slope: y-intercept:	k) $3y + 4x = 12$ slope: y-intercept:	L) $y - 8 = 2x - 4$ slope: y-intercept:

3. Given each line equation in the form of y=mx+b, graph the line with the grid provided:

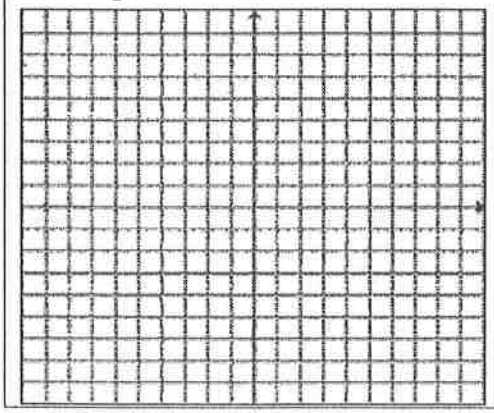
a) $y = \frac{3}{7}x + 4$



b) $y = \frac{4}{5}x + 5$



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



d) $y = -\frac{2}{5}x - 5$