

GRAPHING LINES IN $y = mx + b$ FORM

Homework

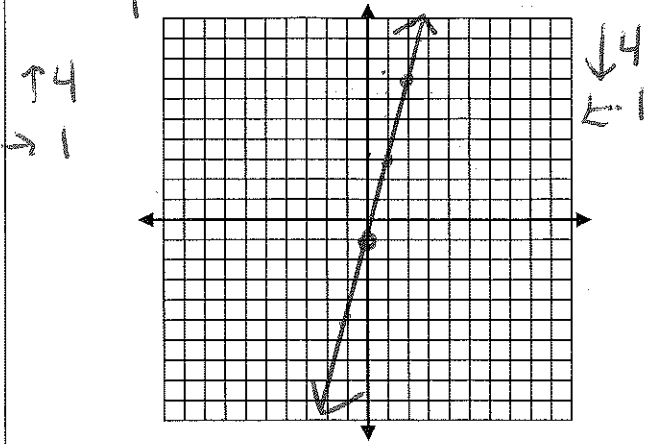
NAME Key

DATE _____ PERIOD _____

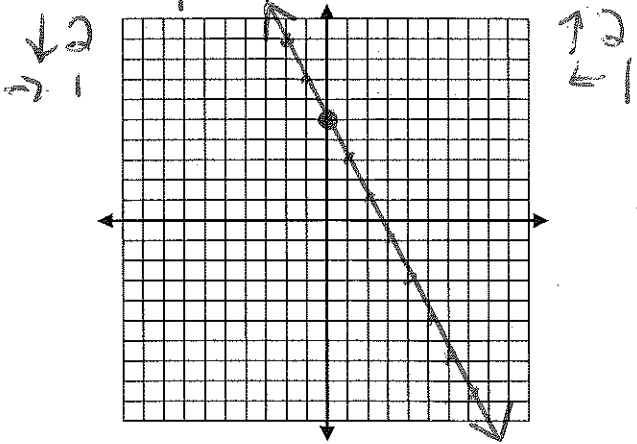
$(0, b)$ rise \updownarrow
run $\leftarrow\rightarrow$

Graph the line of the equation given the slope and the y-intercept

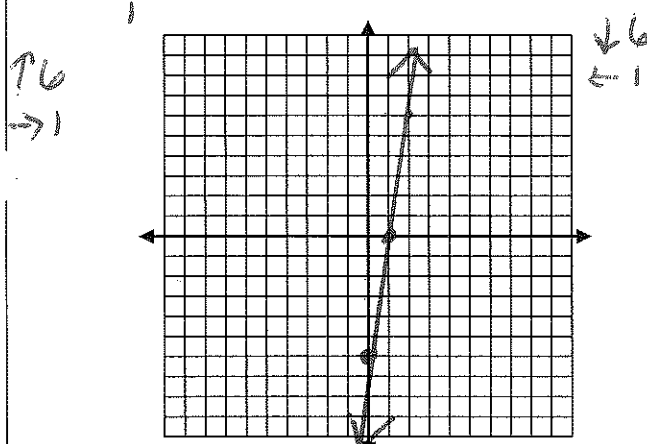
1. $m = \underline{4}$; $b = -1$



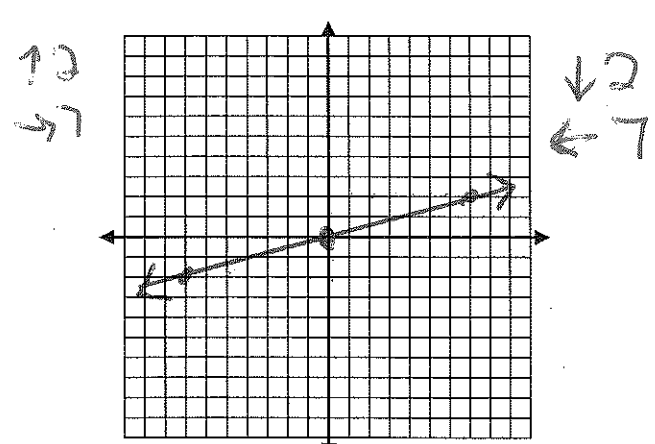
2. slope = $\underline{-2}$; $(0, 5)$



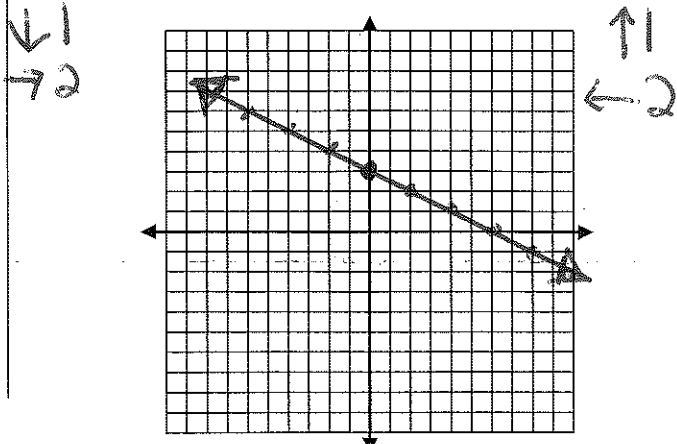
3. $m = \underline{6}$; $b = -6$



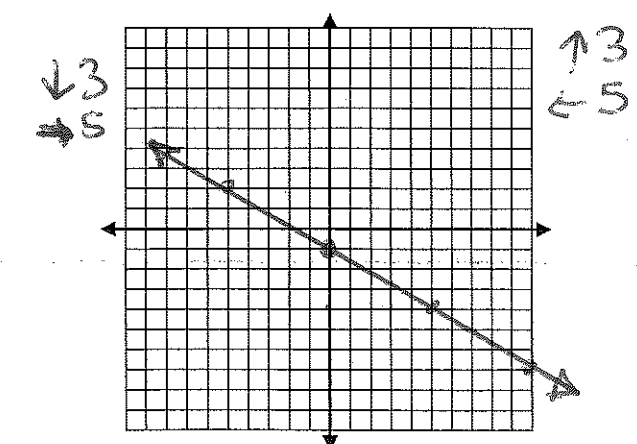
4. slope = $\frac{2}{7}$; $(0, 0)$



5. slope = $-\frac{1}{2}$; $b = 3$



6. $m = -\frac{3}{5}$; $(0, -1)$

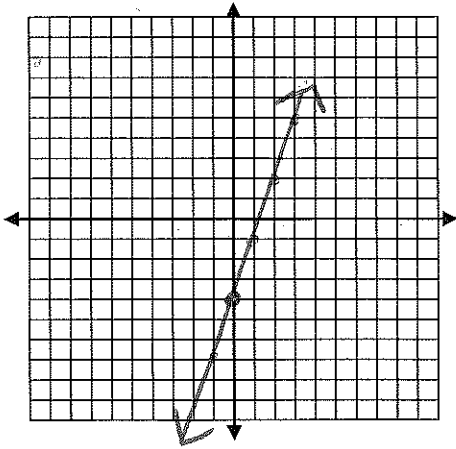


Find the slope and y-intercept of each line, then graph

7. $y = 3x - 4$

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

$b = -4$

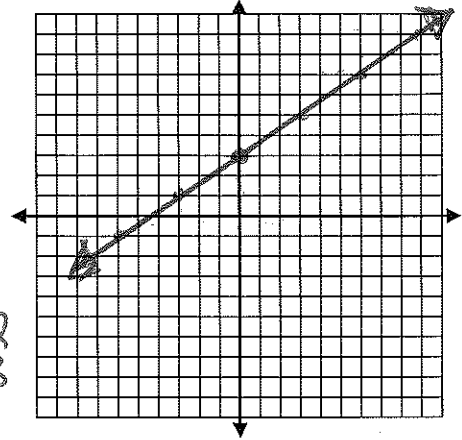


8. $y = \frac{2}{3}x + 3$

$m = \frac{2}{3}$

$b = 3$

↑2
→3
↓2
←3

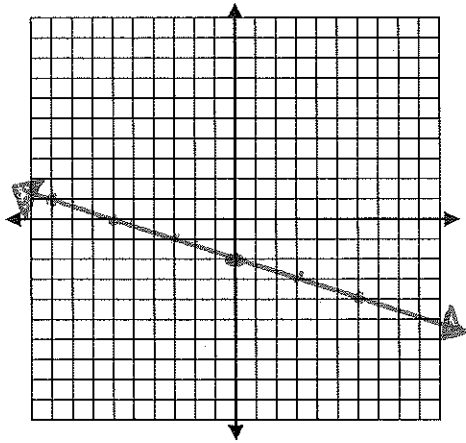


9. $y = -\frac{1}{3}x - 2$

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

$b = -2$

↓1
→3
↑1
←3

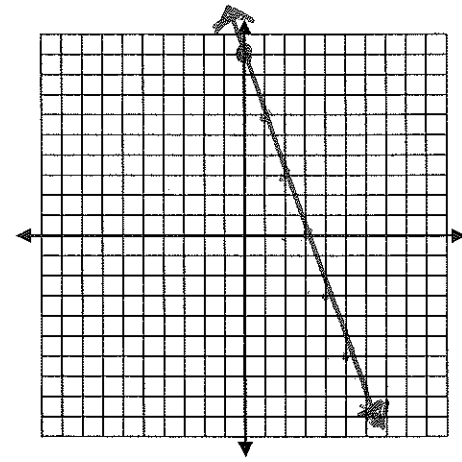


10. $y = -3x + 9$

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

$b = 9$

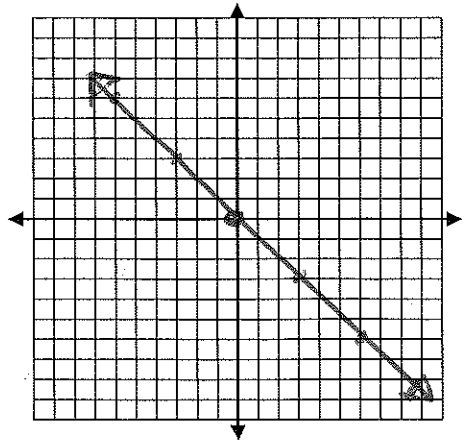
↓3
→1



11. $y = -x$

$m = -1$

$b = 0$



12. $y = 4x + 1$

$m = \frac{4}{1}$

$b = 1$

↑4
→1
↓4
←1

