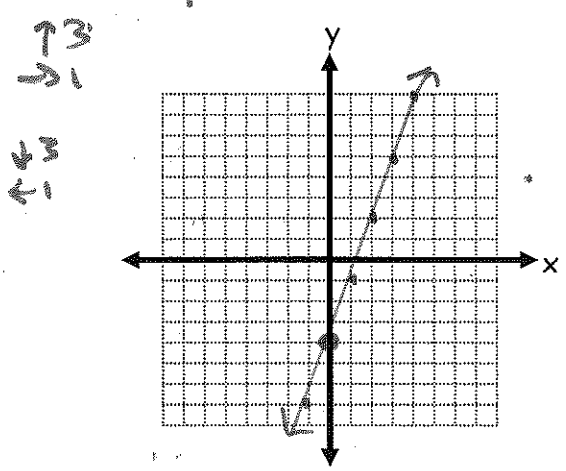
Algebra 1 Unit 4
Class Work

Name Key
Date _____ Period 1st

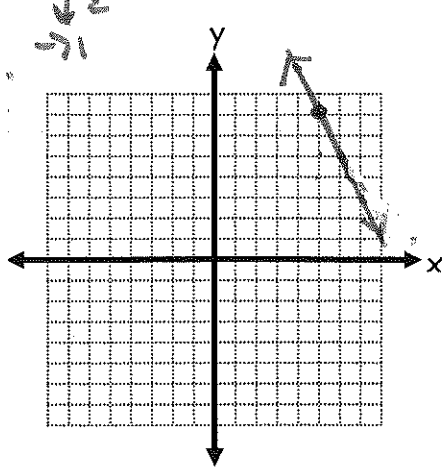
Graphing a Line Given a Point and Slope

I. Graph each of the following given the slope and a point.

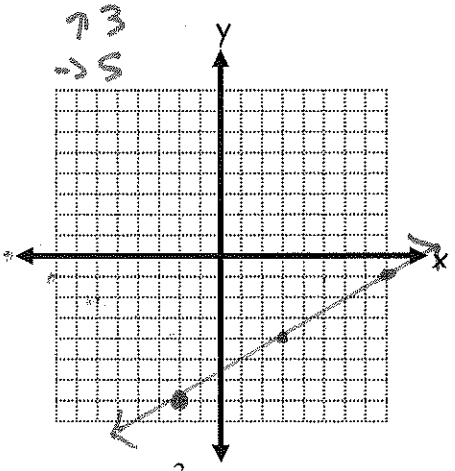
1. m = $\frac{3}{1}$; (0,-4)



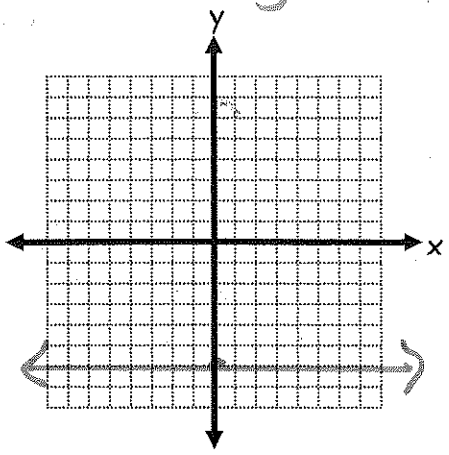
2. m = $\frac{-2}{1}$ (5, 7)



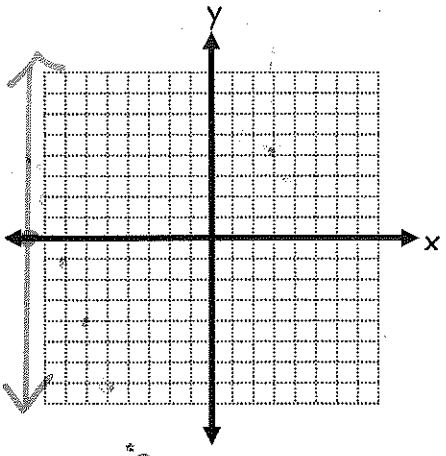
3. m = $\frac{3}{5}$; (−2, − 7)



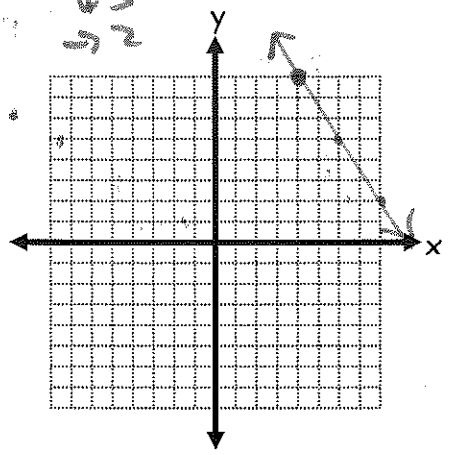
4. m = 0; (7, -6) Horizontal $y = -6$



5. m = undefined; (-9, 6) Vertical $x = -9$

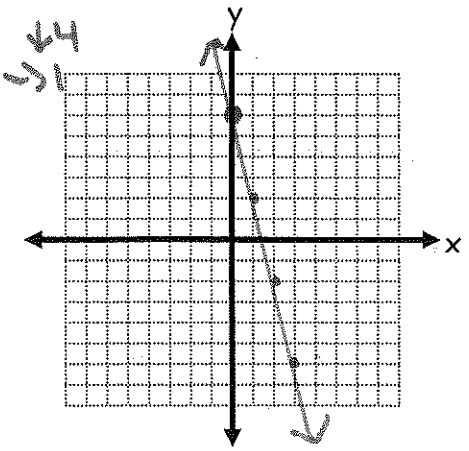


6. m = $-\frac{3}{2}$; (4, 8)

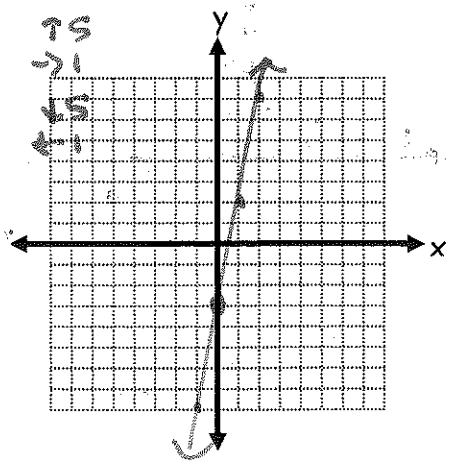


II. Graph each of the following given the slope and y-intercept. (0,b)

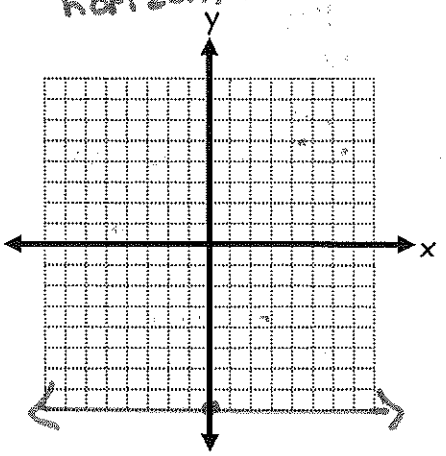
7. m = $\frac{-4}{1}$, b = 6 → (0,6)



8. m = $\frac{5}{1}$, b = −3 → (0,-3)



9. m = 0 (change) b = −8 horizontal line



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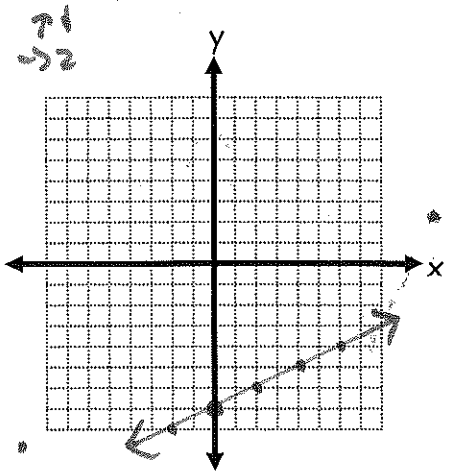
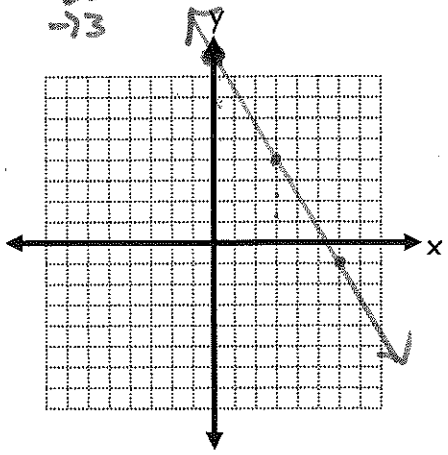
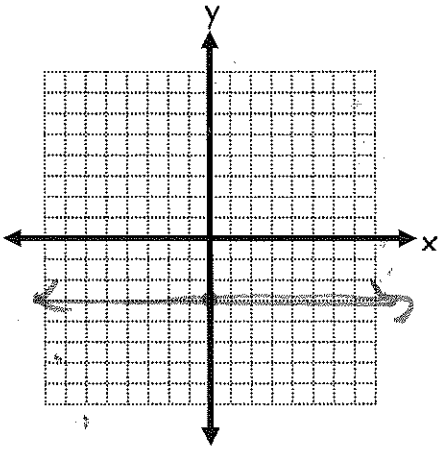
10. $m = \frac{1}{2}$, $b = -7$



11. $m = -\frac{5}{3}$; $b = 9$



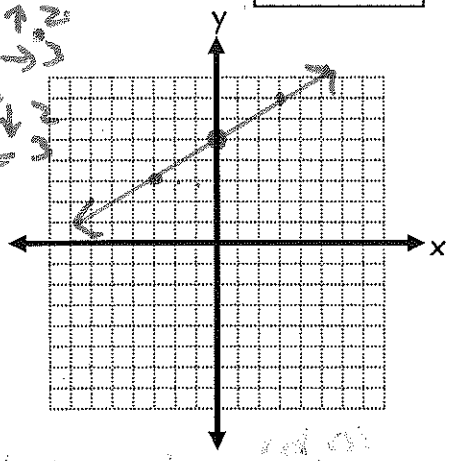
12. $m = 0$; $b = -3$ — horizontal



III. Graph each of the following given an equation in slope-intercept form.

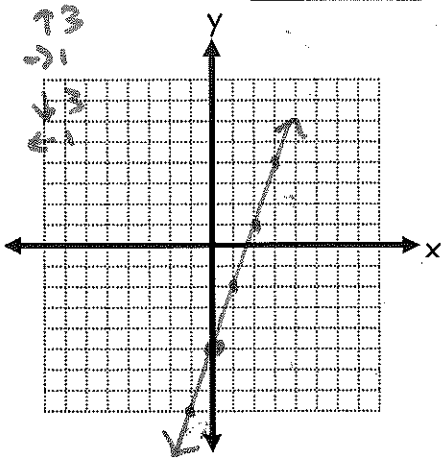
13. $y = \frac{2}{3}x + 5$

$m = \frac{2}{3}$
$b = 5$



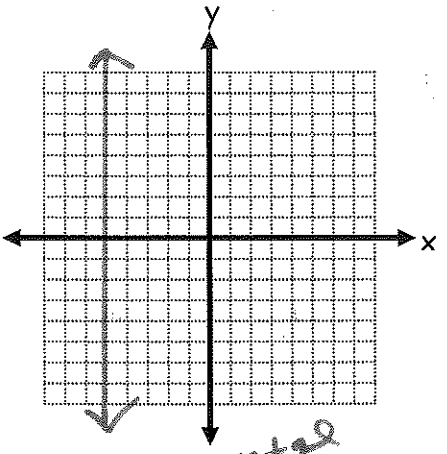
14. $y = \frac{3}{1}x - 5$

$m = 3$
$b = -5$



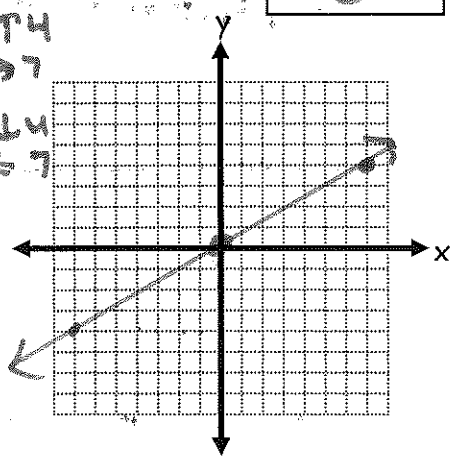
15. $x = -5$ — vertical

$m =$ undefined
$b =$ DNE



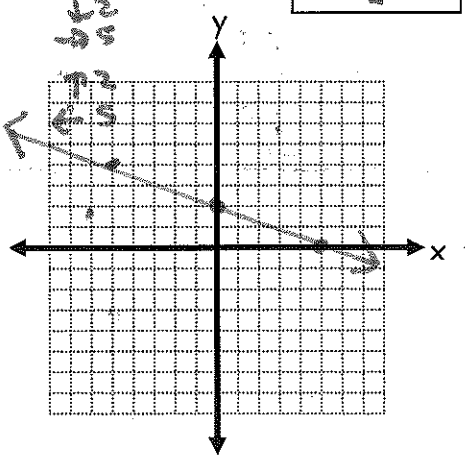
16. $y = \frac{4}{7}x$

$m = \frac{4}{7}$
$b = 0$



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

$m = -\frac{2}{5}$
$b = 2$



18. $y = -6$ — horizontal

$m = 0$
$b = -6$