

Slope Intercept Form Practice

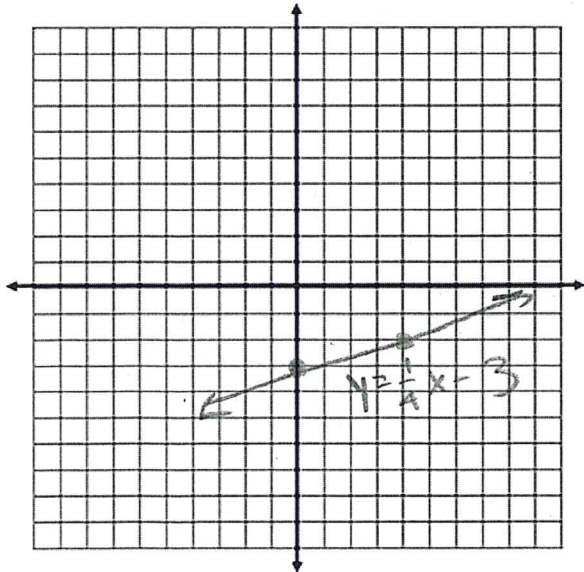
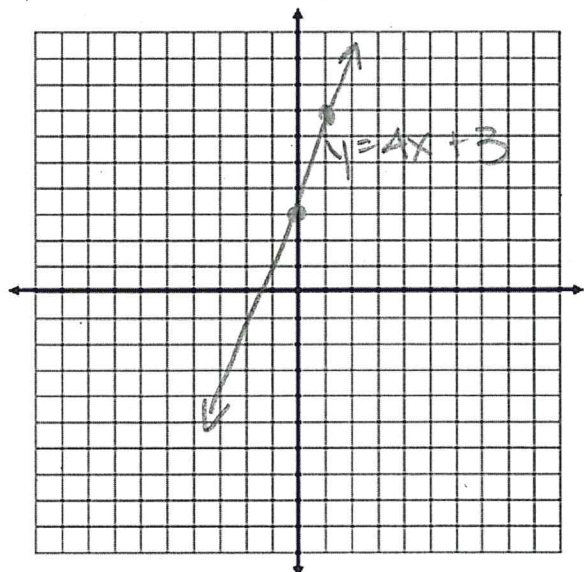
1. What is the slope intercept form? $y = mx + b$

2. What is the slope formula? $m = \frac{y_2 - y_1}{x_2 - x_1}$

Identify the slope and y- intercept from each equation. Make sure the equation is in slope intercept form!! You may leave any fractions as simplified improper fractions.

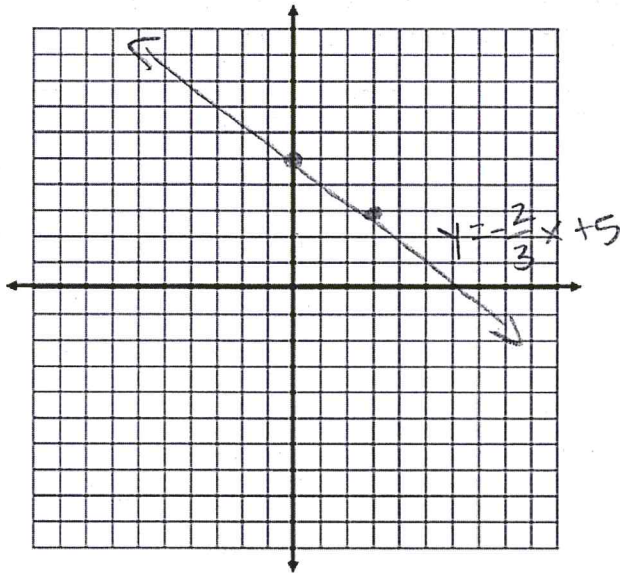
<p>3. $y = 6x + 3$</p> <p>Slope: <u>$m = 6$</u></p> <p>y- intercept: <u>$(0, 3)$</u></p>	<p>4. $12x + 3y = -9$</p> <p>$\frac{3y}{3} = \frac{-12x - 9}{3}$</p> <p>$y = -4x - 3$</p> <p>Slope: <u>$m = -4$</u></p> <p>y- intercept: <u>$(0, -3)$</u></p>	<p>5. $-5y = 25x - 100$</p> <p>$\frac{-5y}{-5} = \frac{25x - 100}{-5}$</p> <p>$y = -5x + 20$</p> <p>Slope: <u>$m = -5$</u></p> <p>y- intercept: <u>$(0, 20)$</u></p>	<p>6. $3y - 2x = 22$</p> <p>$+2x + 2x$</p> <p>$\frac{3y}{3} = \frac{2x + 22}{3}$</p> <p>$y = \frac{2}{3}x + \frac{22}{3}$</p> <p>Slope: <u>$m = \frac{2}{3}$</u></p> <p>y- intercept: <u>$(0, \frac{22}{3})$</u></p>
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Graph each equation. ** Make sure the equation is in slope intercept form.

<p>7. $y = \frac{1}{4}x - 3$</p> <p>Slope: <u>$m = \frac{1}{4}$</u> y- int: <u>$(0, -3)$</u></p> 	<p>8. $y = 4x + 3$</p> <p>Slope: <u>$m = \frac{4}{1}$</u> y- int: <u>$(0, 3)$</u></p> 
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9. $y = -\frac{2}{3}x + 5$

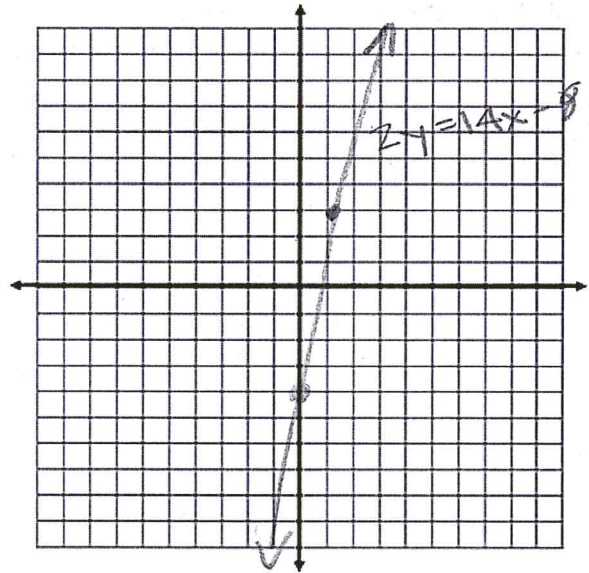
Slope: $m = -\frac{2}{3}$ y-int: $(0, 5)$



10. $\frac{2y}{2} = \frac{14x - 8}{2}$

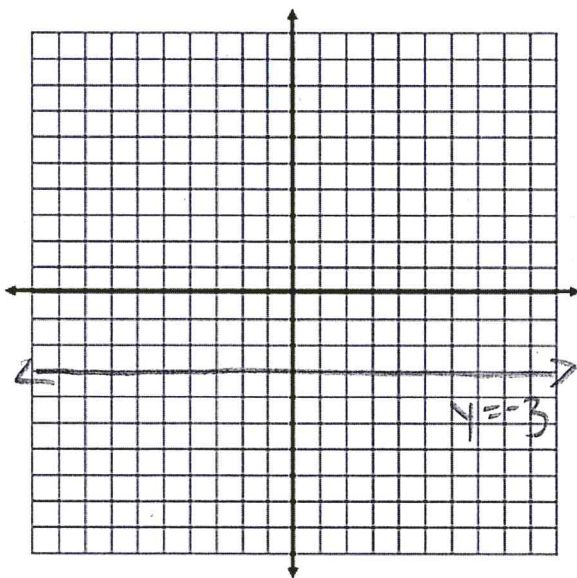
$y = 7x - 4$

Slope: $m = 7$ y-int: $(0, -4)$



11. $y = -3$

Type of line: horizontal



12. $x = 5$

Type of line: vertical

