

Quiz Review – Slope Intercept Form

Name _____ Hr _____

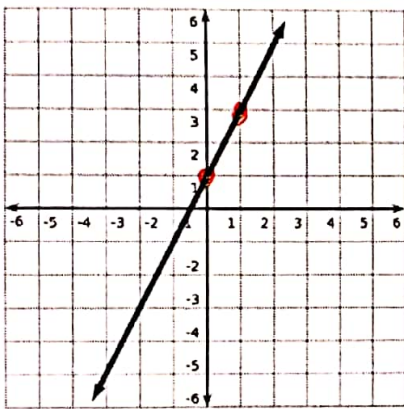
$$y = mx + b$$

Identify m and b. Rearrange to Slope-intercept form if necessary.

1. $y = 3x + 7$ $m = \underline{3}$ $b = \underline{7}$	2. $y + 15 = x$ $y = x - 15$ $m = \underline{1}$ $b = \underline{-15}$	3. $y + \frac{1}{4}x = 6$ $y = -\frac{1}{4}x + 6$ $m = \underline{-\frac{1}{4}}$ $b = \underline{6}$	4. $y = -4$ $m = \underline{0}$ $b = \underline{-4}$
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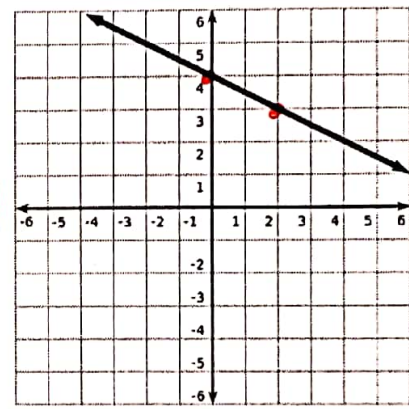
Write the equation in slope-intercept form for each line.

5.



6.

$$y = -\frac{1}{2}x + 4$$

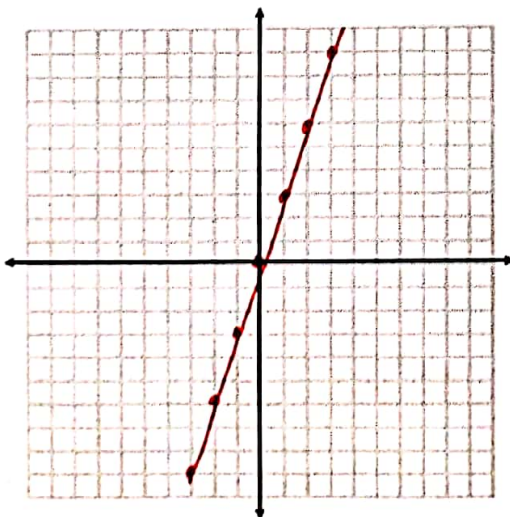


Graph each equation. Rearrange to Slope-Intercept Form if necessary. Identify m and b.

7. $y = 3x$

$m = \underline{3}$

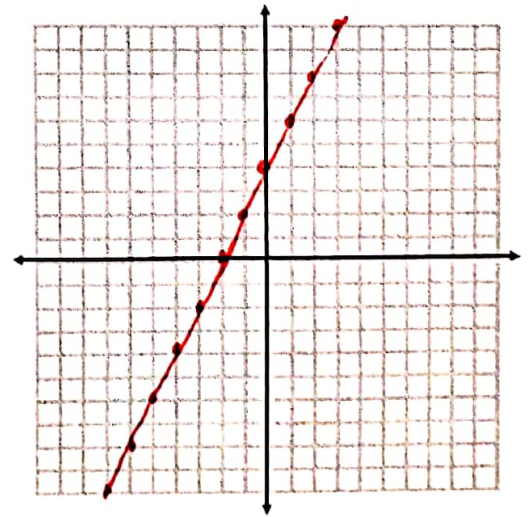
$b = \underline{0}$



8. $y = 2x + 4$

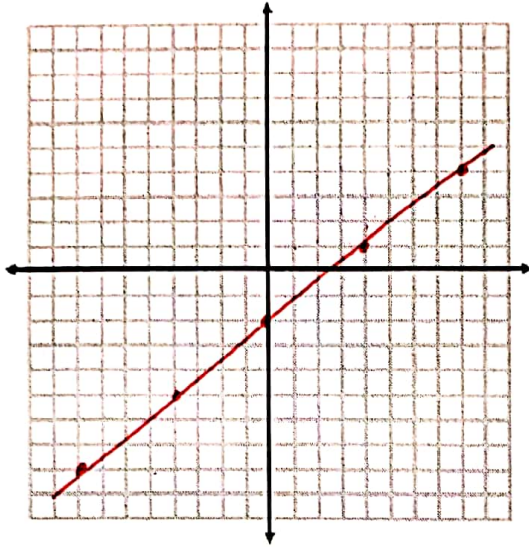
$m = \underline{2}$

$b = \underline{4}$



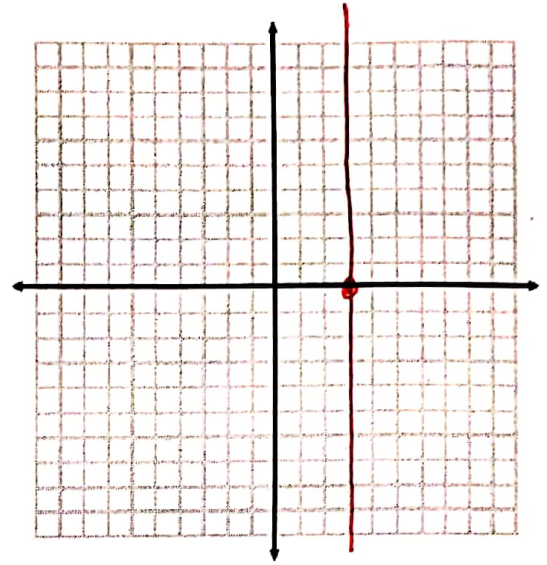
9. $y = \frac{3}{4}x - 2$

$m = \frac{3}{4}$
 $b = -2$



10. $x = 3$

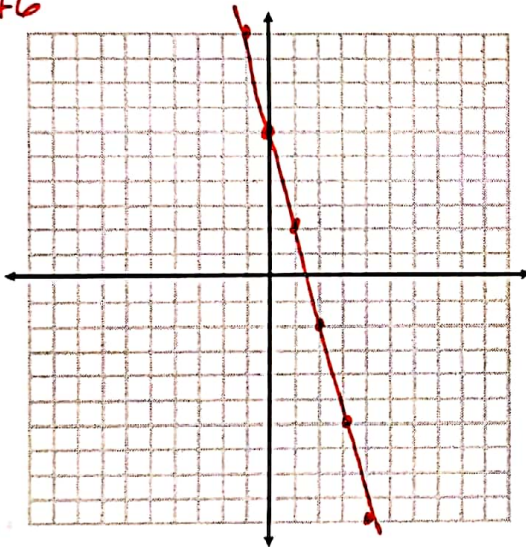
$m = \text{und.}$
 $b = -$



11. $4x + y = 6$

$y = -4x + 6$

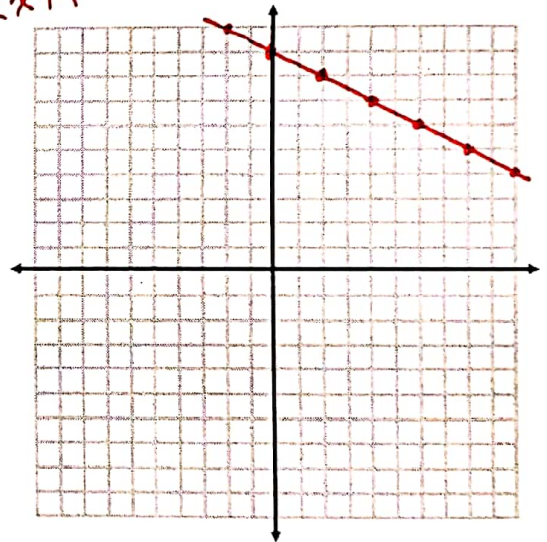
$m = -4$
 $b = 6$



12. $\frac{1}{2}x + y = 9$

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

$m = -\frac{1}{2}$
 $b = 9$



13. Johnny buys a lot of songs. He has 280 songs in iTunes right now and downloads 5 more each week.

<p>A) Define variables</p> <p>$y = \text{Total Songs}$ $x = \text{weeks}$</p>	<p>B) Slope & y-intercept</p> <p>$m = \underline{5}$ $b = \underline{280}$</p>	<p>C) Write equation</p> <p>$y = 5x + 280$</p> <p>$y = mx + b$</p>	<p>D) If Johnny keeps collecting songs for 25 more weeks, how many songs will he have total?</p> <p>$y = 5(25) + 280$ $y = 125 + 280$ $y = 405 \text{ songs}$</p> <p>Write out the equation to solve</p>
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