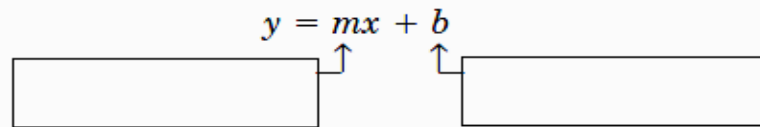


WS 2-2 – Slope-intercept Form

1. Fill in the boxes with the correct words to describe what m and b represent.



2. What are the slope and y-intercept of a vertical line?

3. What are the slope and y-intercept of a horizontal line?

Write an equation of the line with the given slope and y-intercept.

4. Slope: 5, y-intercept: -3

5. Slope: -2, y-intercept: 7

6. Slope: $\frac{1}{2}$, y-intercept: -3

7. Slope: $-\frac{4}{5}$, y-intercept: 5

8. Slope: -9, y-intercept: 5

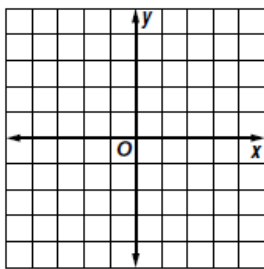
9. Slope: 0, y-intercept: -4

10. Slope: 1, y-intercept: 0

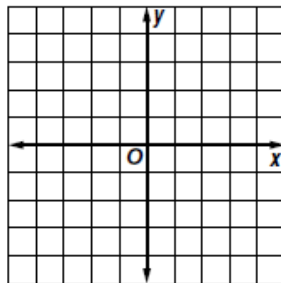
11. Slope: $\frac{3}{2}$, y-intercept: -3

Graph the lines from above.

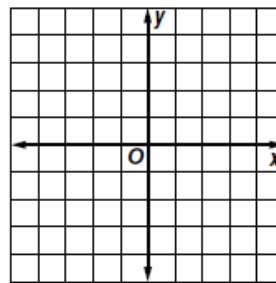
4.



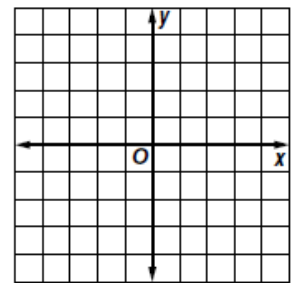
5.



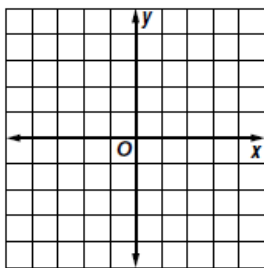
6.



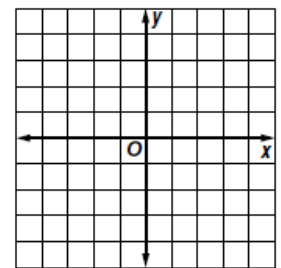
7.



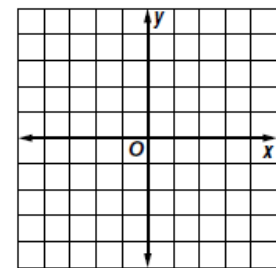
8.



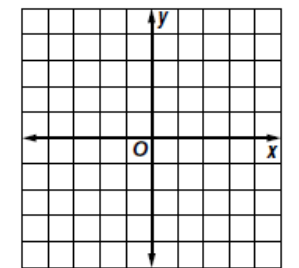
9.



10.



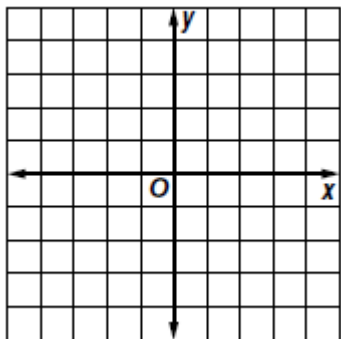
11.



Determine the slope and the y-intercept for each equation. Then, graph the lines.

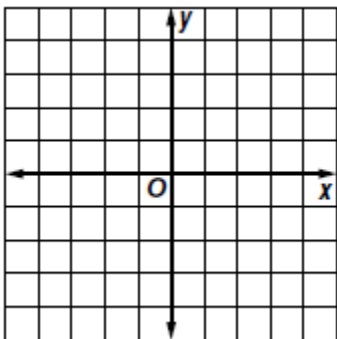
12. $y = x + 4$

$m = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$



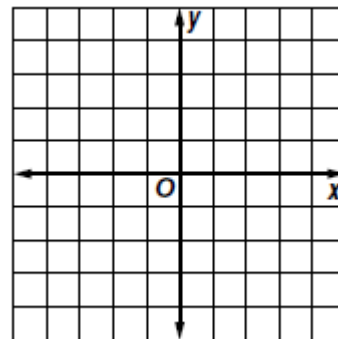
13. $y = -2x - 1$

$m = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$



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

$m = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$



Determine if the given points are solutions to the given equation.

15. $y = x + 2$	(0, 2)
	(1, 4)
	(-6, -8)
	(-3, -1)
	(0.5, 2.5)
	(-2, 0)
17. $y = -x - 1$	(-8, 7)
	(10, 9)
	(-1, 0)
	(0, 2)
	(1, 0)

16. $y = \frac{1}{3}x - 7$	(21, 0)
	(-15, 12)
	(-21, -14)
	(3, -6)
	(0, -7)
	(6, -5)
18. $2x + 3y = 6$	(0, 2)
	(3, 0)
	(-2, -1)
	(-6, 6)
	(6, -2)