Warm-Up 11/15/18 Convert each equation to slope intercept form.

1.
$$4x + 2y = 16$$

$$-4x - 4x$$

$$2y = -4x + 16$$

$$2y = -4x + 16$$

$$2y = -2x + 8$$

2.
$$5x + 3y = 21$$

$$-5x - 5x$$

$$3y = -5x + 2x$$

$$3 - 3x + 3$$

$$4y = -5x + 2x$$

$$3 - 3x + 7$$

3.
$$6x - 3y = 15$$

$$-6x - 6x$$

$$-3y = -6x + 15$$

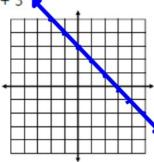
$$-3 - 3$$

$$-3 - 3$$

4.
$$3x - 2y = -18$$
 $-3x$
 $-3x$

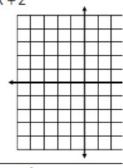


- 2. Plot the y-intercept.
- 3. Use the slope to create more points.
- 4. Connect into a line!



2.
$$y = 3x - 4$$

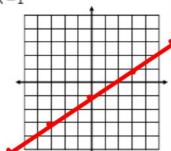




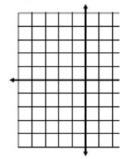
4.
$$y = -\frac{3}{4}x + 1$$



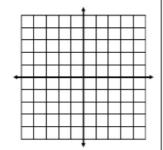




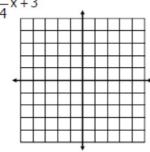
6.
$$y = -2x + 4$$



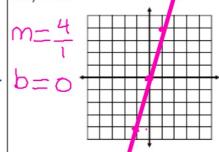


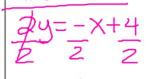


8. $y = -\frac{1}{4}x + 3$

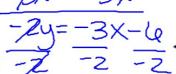


9. y = 4x

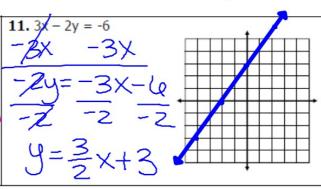




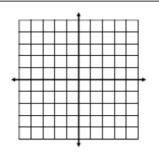


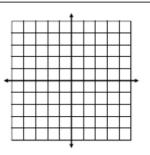


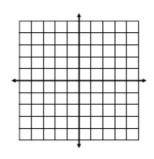
$$y = \frac{3}{2}x + 3$$

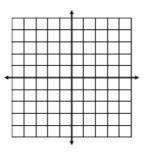


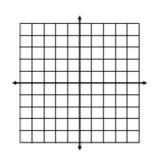




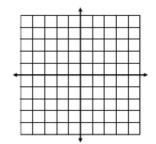


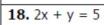


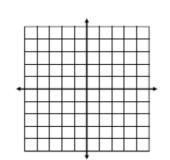




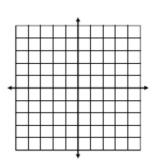
17.
$$6x - 5y = 15$$

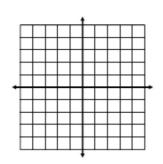




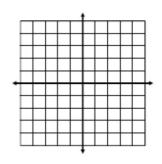


19. 10x - 8y = 24





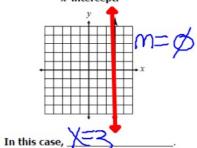
21. 3x + y = 0



SPECIAL CASES: Vertical & Horizontal Lines

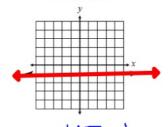
Vertical Lines

A vertical line is written in the form x=a, where a represents the line's x-intercept.



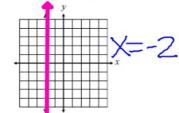
Horizontal Lines

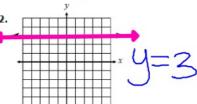
A horizontal line is written in the form y = a, where a represents the line's y-intercept.



In this case,

Directions: Write the equation of each line below.





3.

