

Name _____

Date _____

Writing in Slope Intercept Form

Write each in slope intercept form.

Example:

$$2y + 6 = 4x$$

Isolate y $\frac{-6}{-6} \quad \frac{-6}{-6}$

$$2y = 4x - 6$$

divide all terms by 2 $\frac{2}{2} \quad \frac{2}{2}$

$$y = 2x - 3$$

Try These:

1) $3y = 6x - 9$

5) $y - 5 = 2x$

2) $2y = 4x - 12$

6) $2y = x + 10$

3) $y + 5 = 3x$

7) $4y = x - 16$

4) $4y = 3x + 8$

8) $-2y = 8x - 6$

9) $y + 4x = 3$

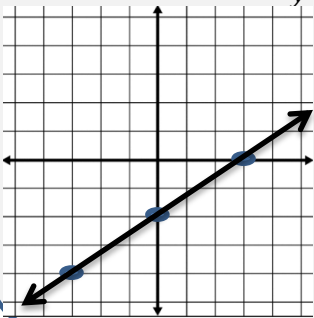
Write in slope intercept form and then graph.

Example: $-2x + 3y = -6$

isolate y $\frac{+2x}{3} \quad \frac{+2x}{3}$

$$\frac{3y = 2x - 6}{3 \quad 3}$$

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

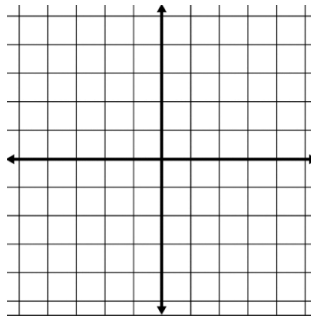


y-intercept: -2

Slope: $\frac{2}{3}$ $\frac{\text{rise}}{\text{run}}$

4)

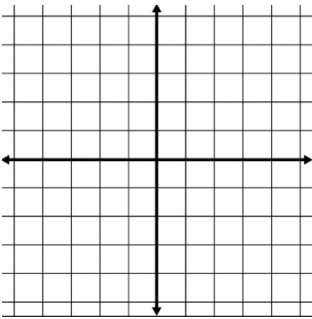
$$y + 1 = \frac{1}{4}x$$



Try These:

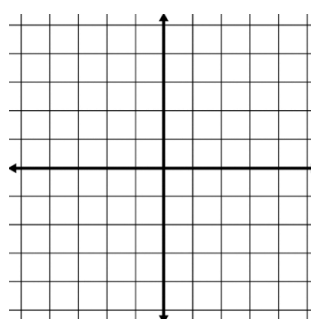
1)

$$3y = 9x - 6$$



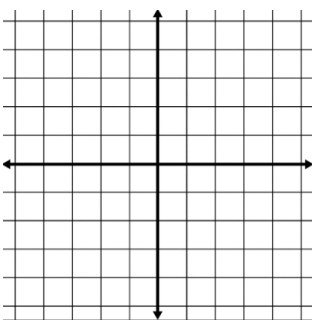
5)

$$2y = x + 6$$



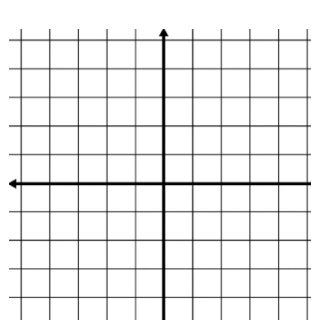
2)

$$2y = 4x - 2$$



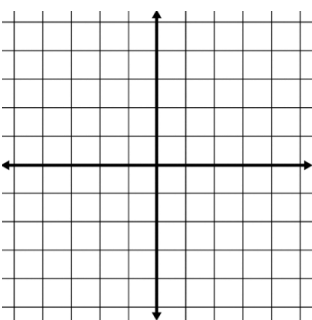
6)

$$4y = 3x - 16$$



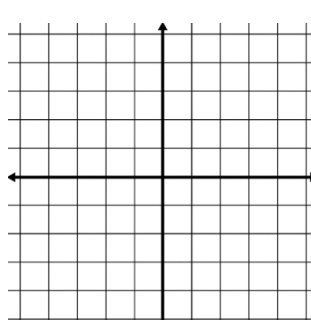
3)

$$y + 4 = 3x$$



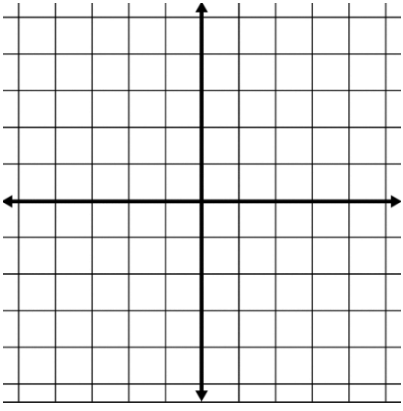
7)

$$2y = 2x - 4$$



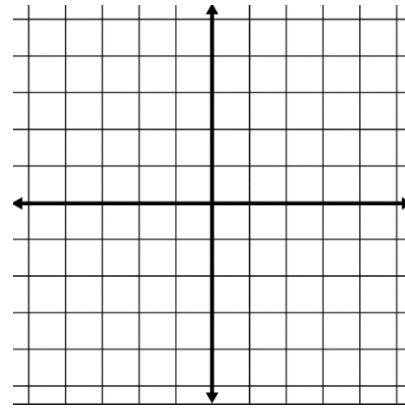
8)

$$2y = 3x - 10$$



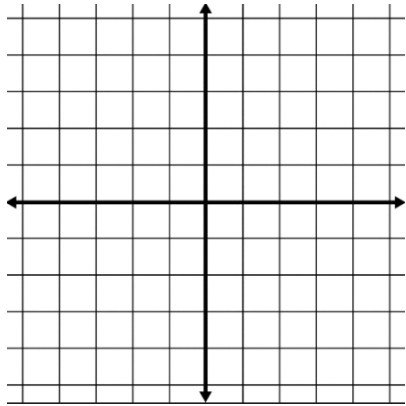
12)

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



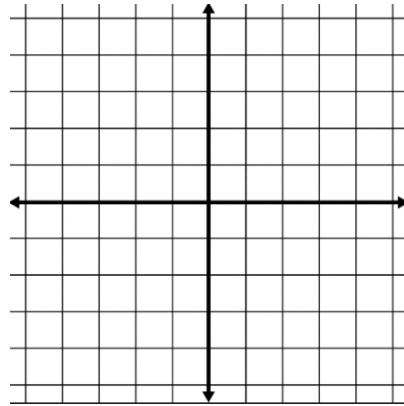
9)

$$2y = x + 2$$



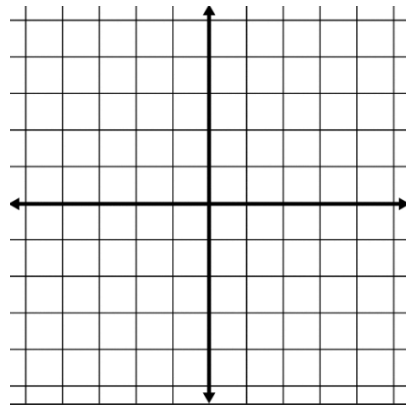
13)

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



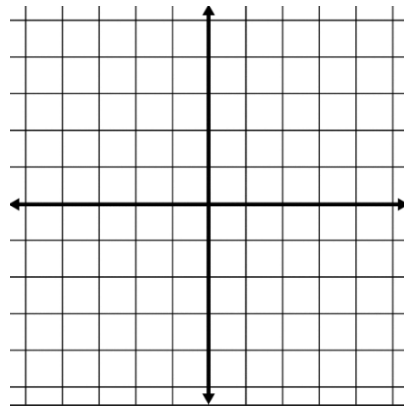
10)

$$y - 2 = 3x$$



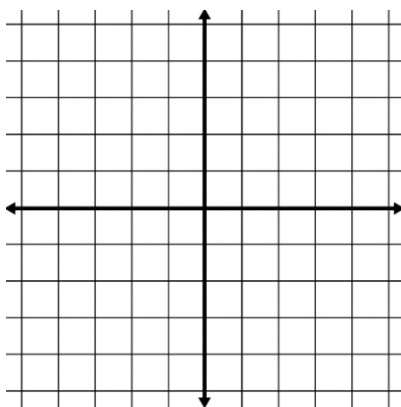
14)

$$-2y = x - 4$$



11)

$$y - 1 = 3x$$



15)

$$y + \frac{1}{3}x = 3$$

