

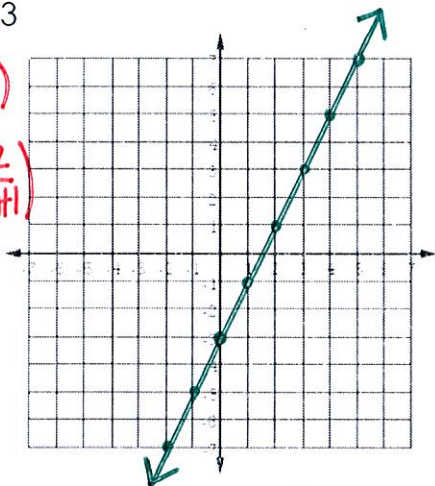
Name: _____

Date: _____

Day 2 - Graphing Using Slope Intercept Form ($y = mx + b$)Write the equation in standard form, $y = mx + b$, if not done already. Graph the equation.

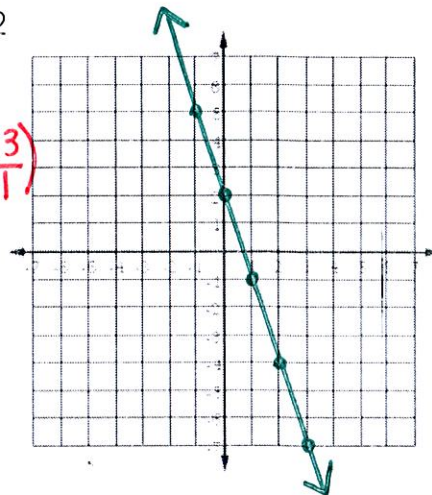
1. $y = 2x - 3$

y-int: $(0, -3)$
slope: $\frac{2}{1}$ (up 2, right 1)



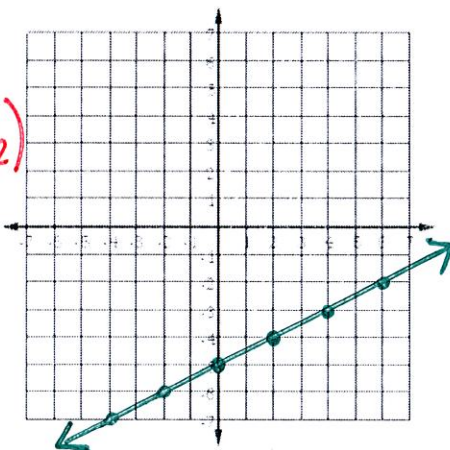
2. $y = -3x + 2$

y-int: $(0, 2)$
slope: $-\frac{3}{1}$ (down 3, right 1)



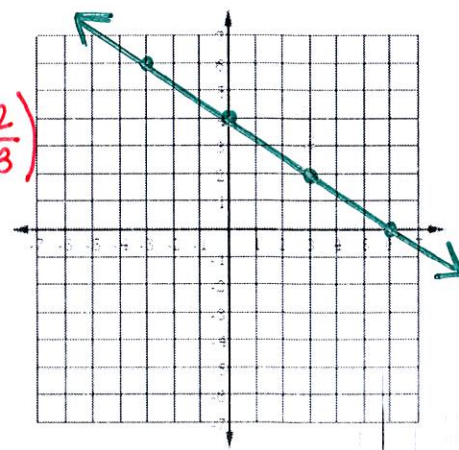
3. $y = \frac{1}{2}x - 5$

y-int: $(0, -5)$
slope: $\frac{1}{2}$ (up 1, right 2)



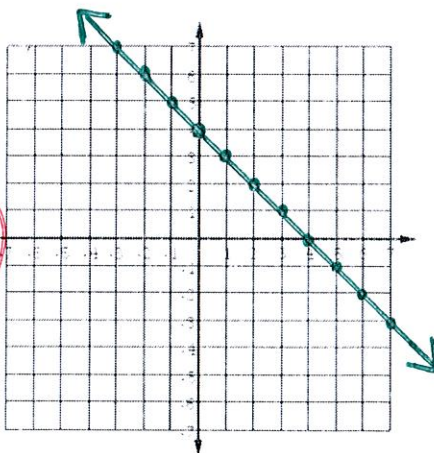
4. $y = -\frac{2}{3}x + 4$

y-int: $(0, 4)$
slope: $-\frac{2}{3}$ (down 2, right 3)



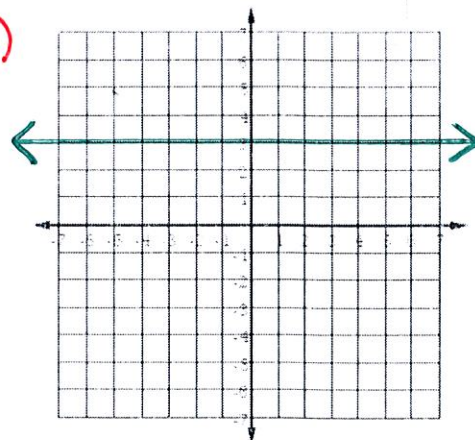
5. $x + y = 4$

$y = -x + 4$
y-int: $(0, 4)$
slope: $-\frac{1}{1}$ (down 1, right 1)



6. $y = 3$

y-int: $(0, 3)$

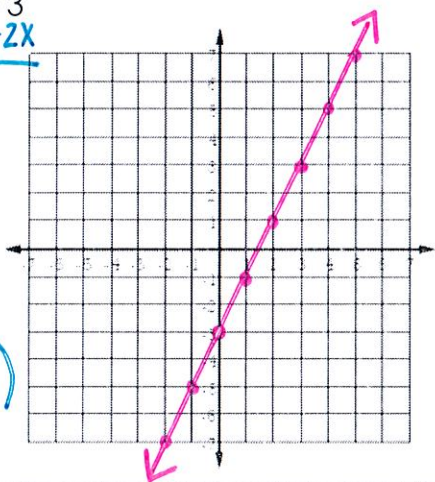


$$7. \quad \begin{array}{r} 2x - y = 3 \\ -2x \quad -2x \\ \hline \end{array}$$

$$y = \frac{-2x+3}{-1} \quad \frac{-2x}{-1} \quad \frac{3}{-1}$$

$$y = 2x - 3$$

y-int: (0, -3)
slope: $\frac{2}{1}$ (up 2 right 1)

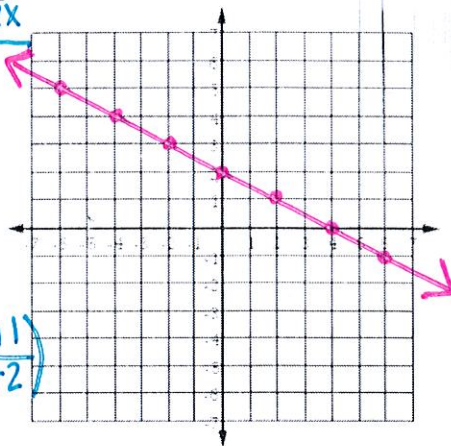


$$8. \quad \begin{array}{r} 2x + 4y = 8 \\ -2x \quad -2x \\ \hline \end{array}$$

$$4y = \frac{-2x+8}{4} \quad \frac{-2x}{4} \quad \frac{8}{4}$$

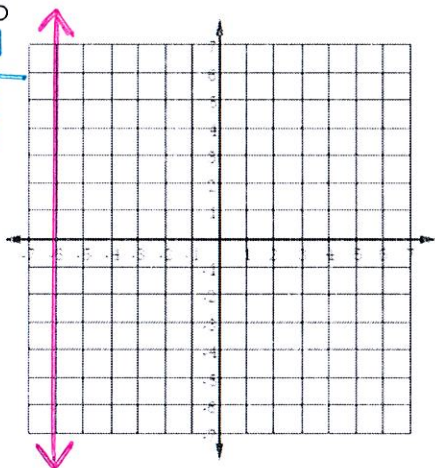
$$y = -\frac{1}{2}x + 2$$

y-int: (0, 2)
slope: $-\frac{1}{2}$ (down 1 right 2)



$$9. \quad \begin{array}{r} x + 1 = -5 \\ -1 \quad -1 \\ \hline \end{array}$$

$$x = -6$$

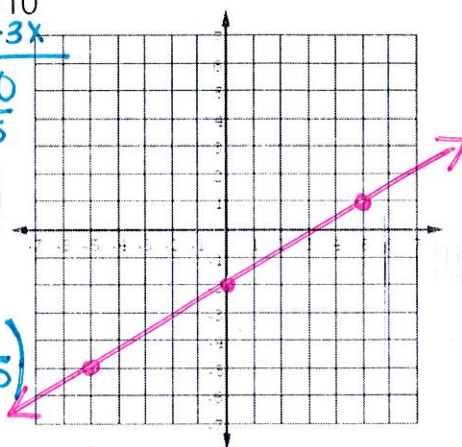


$$10. \quad \begin{array}{r} 3x - 5y = 10 \\ -3x \quad -3x \\ \hline \end{array}$$

$$-5y = \frac{-3x+10}{-5} \quad \frac{-3x}{-5} \quad \frac{10}{-5}$$

$$y = \frac{3}{5}x - 2$$

y-int: (0, -2)
slope: $\frac{3}{5}$ (up 3 right 5)

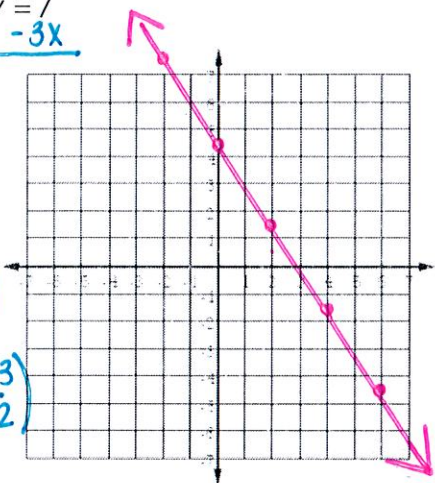


$$11. \quad \begin{array}{r} 3x + 2y = 7 \\ -3x \quad -3x \\ \hline \end{array}$$

$$2y = \frac{-3x+7}{2} \quad \frac{-3x}{2} \quad \frac{7}{2}$$

$$y = -\frac{3}{2}x + \frac{7}{2}$$

y-int: (0, 7/2)
slope: $-\frac{3}{2}$ (down 3 right 2)



$$12. \quad \begin{array}{r} 3x - \frac{1}{2}y = 2 \\ -3x \quad -3x \\ \hline \end{array}$$

$$-\frac{1}{2}y = \frac{-3x+2}{-1/2} \quad \frac{-3x}{-1/2} \quad \frac{2}{-1/2}$$

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

$$y = 6x - 4$$

y-int: (0, -4)

slope: $\frac{6}{1}$ (up 6 right 1)

