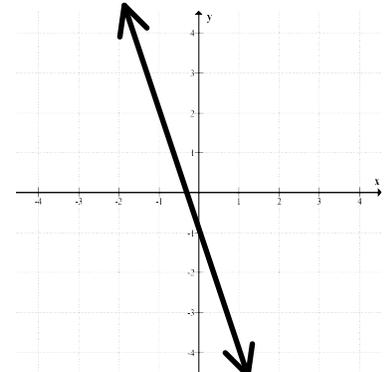
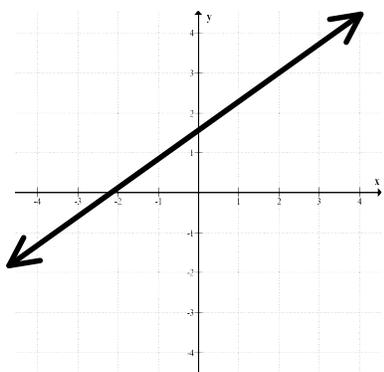
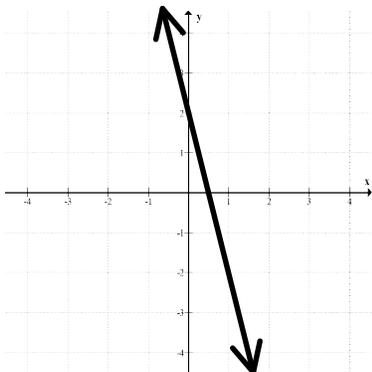
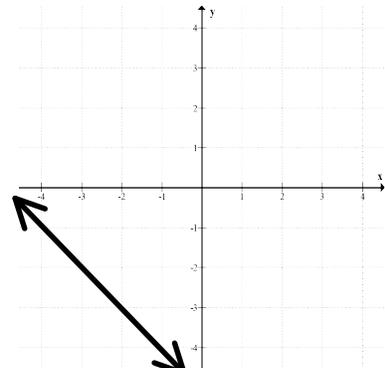
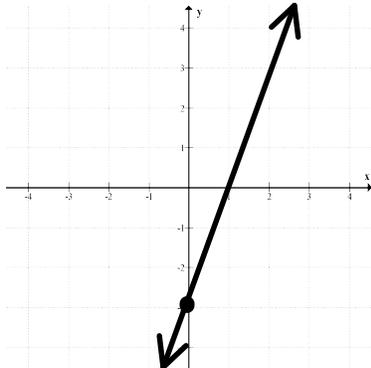
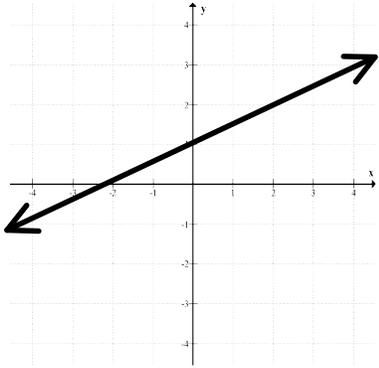
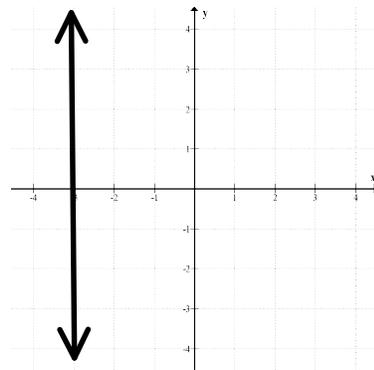
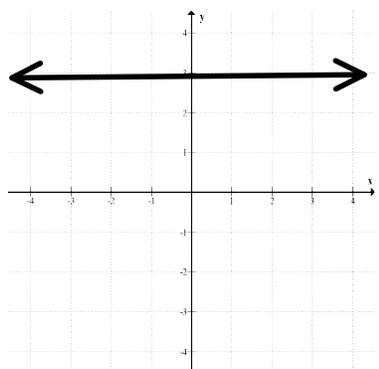


M10 - 7.1 - Find x & y -Intercept HW

Find and label the x & y -intercept and Slope of the following lines.



Find and label Intercepts, state multiple Points, Slope, and Equation of the following graphs.

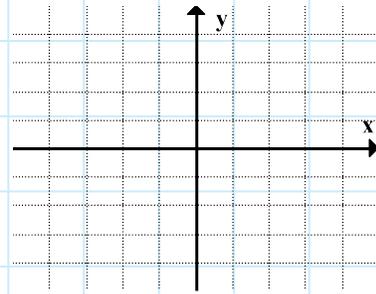


M10 - 7.1 - Graphing Standard Form HW

Graph the line using the x and y intercept method

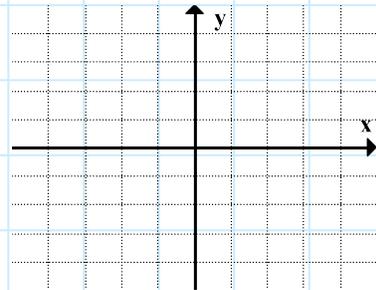
$$6x + 3y = 12$$

x	y
0	
	0



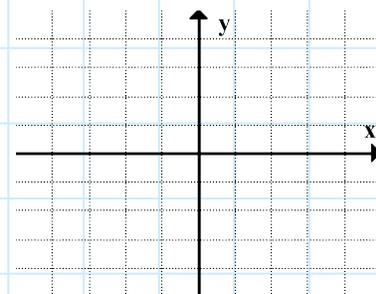
$$5x + 4y = 20$$

x	y
0	
	0



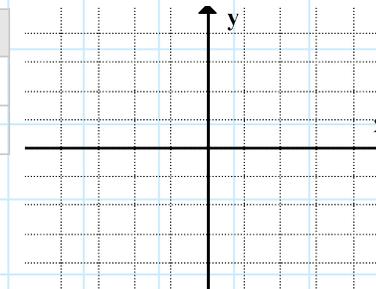
$$3x + 2y = 6$$

x	y
0	
	0



$$4x + 2y = 8$$

x	y
0	
	0

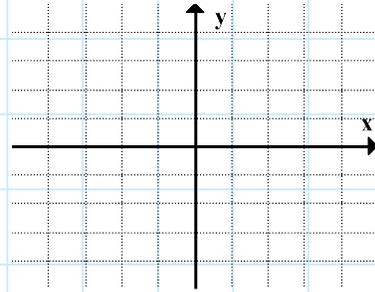


M10 - 7.1 - Graphing Standard Form HW

Graph the line using the x and y intercept method

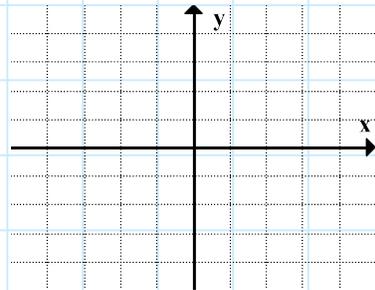
$$2y + 3x + 6 = 0$$

x	y
0	
	0



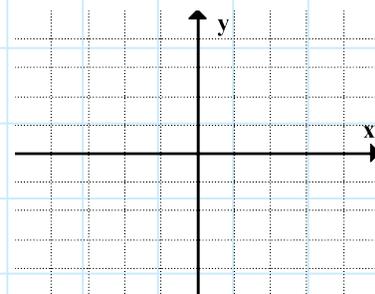
$$y - x - 2 = 0$$

x	y
0	
	0



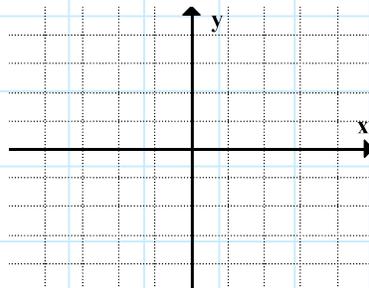
$$x - 2y + 2 = 4$$

x	y
0	
	0



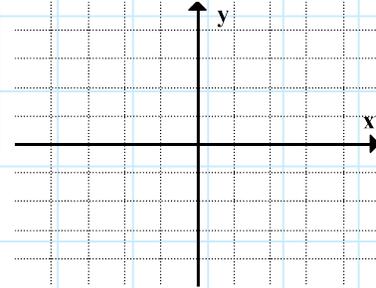
$$x - 2 = 0$$

x	y
0	
	0



$$y = 0$$

x	y
0	
	0



M10 - 7.2 - y - int /Slope: Slope Intercept Form HW

Write in $y = mx + b$.

$$\text{Slope} = -2, y - \text{intercept} = 3$$

$$\text{Slope} = 4, y - \text{intercept} = -1$$

$$\text{Slope} = \frac{3}{2}, y - \text{intercept} = 2$$

$$\text{Slope} = -0.5, y - \text{intercept} = -4$$

$$\text{Slope} = 1, y - \text{intercept} = 0$$

$$\text{Slope} = -1, y - \text{intercept} = \frac{1}{2}$$

$$\text{Slope} = 0, y - \text{intercept} = 0$$

$$\text{Slope} = \text{undefined}, x - \text{intercept} = 3$$

$$\text{Slope} = -\frac{1}{2}, y - \text{intercept} = 5$$

$$\text{Slope} = \frac{3}{2}, y - \text{intercept} = -3$$

$$\text{Slope} = 3, y - \text{intercept} = -2$$

$$\text{Slope} = -0.2, y - \text{intercept} = -2$$

$$\text{Slope} = 2, y - \text{intercept} = 0$$

$$\text{Slope} = -2, y - \text{intercept} = \frac{3}{2}$$

$$\text{Slope} = 1, y - \text{intercept} = 0$$

$$\text{Slope} = \text{undefined}, x - \text{intercept} = 0$$

M10 - 7.2 - Find Slope and y-Intercept HW

Identify slope and y-intercept.

$$y = 2x + 1$$

$$y = -3x - 4$$

$$y = x$$

$$y = 4$$

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

$$x = 3$$

$$y = 2x + 3$$

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

$$y = 5$$

$$x = 0$$

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

$$y = 0$$

$$y = -2x + 7$$

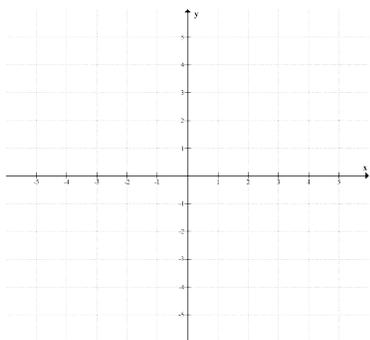
$$y = 3x$$

$$y = 0.2x + 1$$

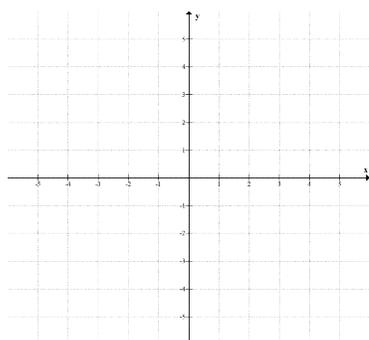
M10 - 7.2 - Graph Slope Intercept HW

Graph the Following

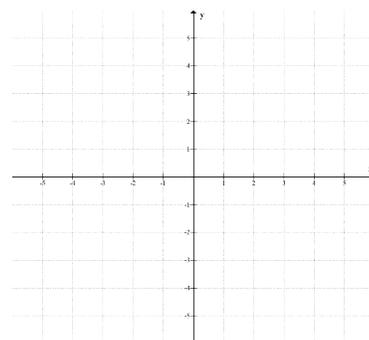
$$y = x + 1$$



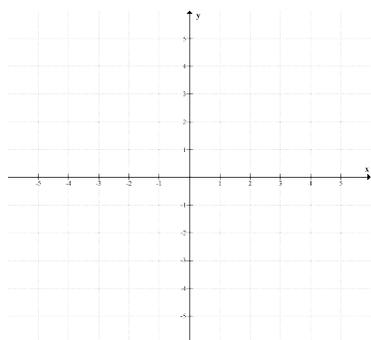
$$y = -x - 2$$



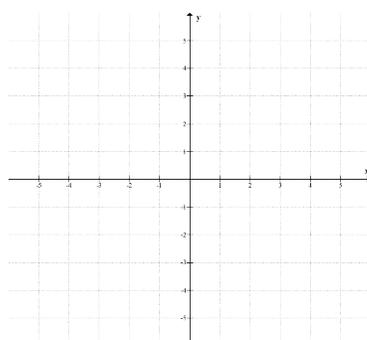
$$y = 2x + 1$$



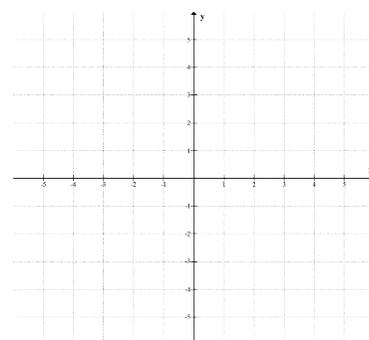
$$y = 3x$$



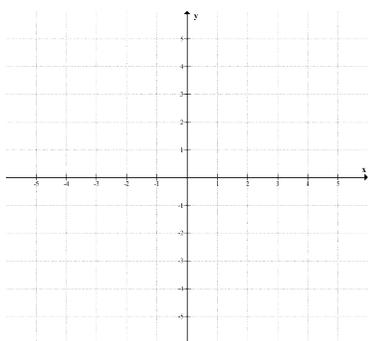
$$y = \frac{1}{2}x - 3$$



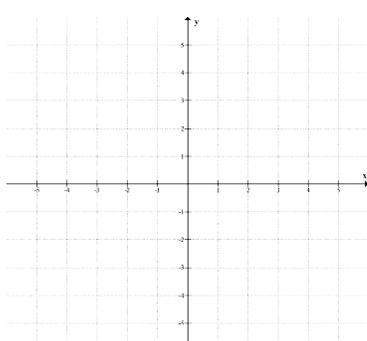
$$y = -2x + 4$$



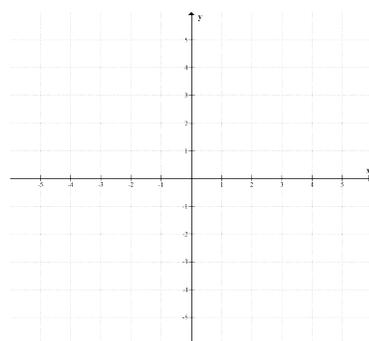
$$y = -\frac{3}{2}x + 2$$



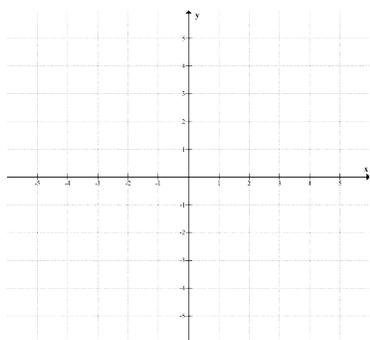
$$y = 3x + 5$$



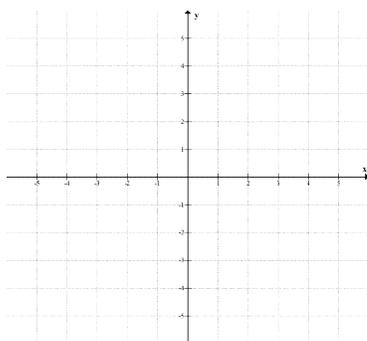
$$y = 3x - 4$$



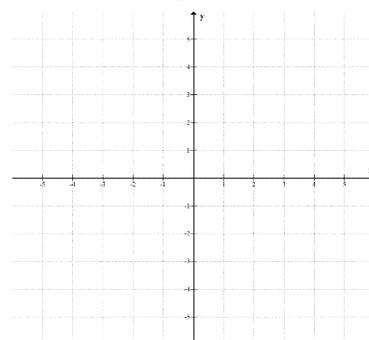
$$y = 5$$



$$x = 2$$

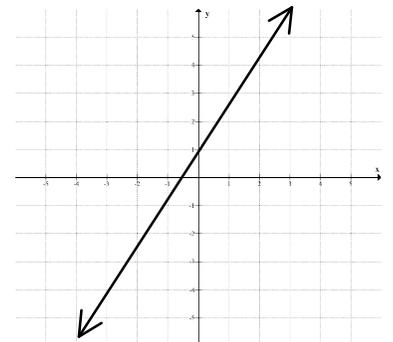
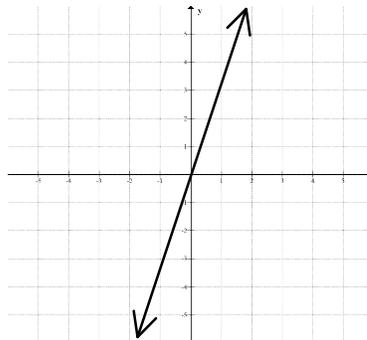
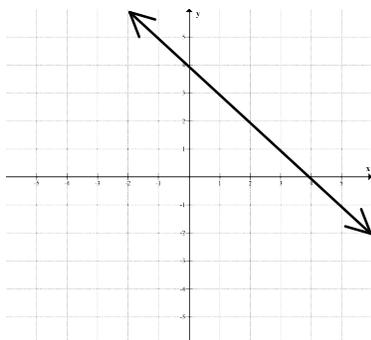
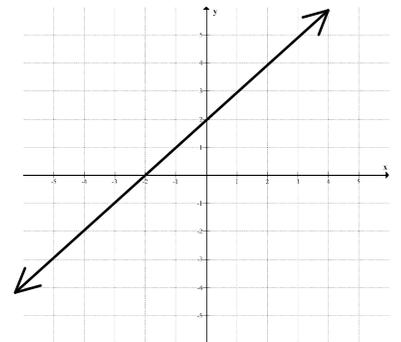
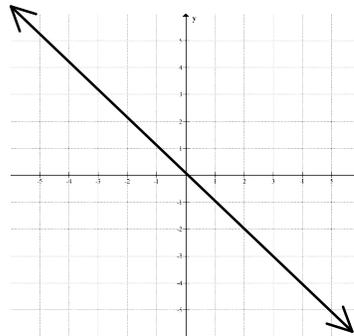
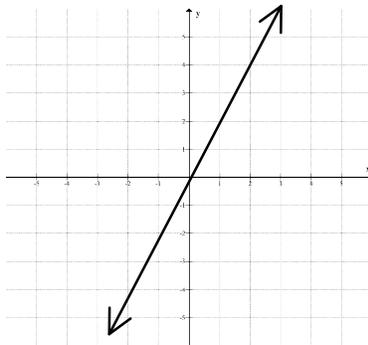
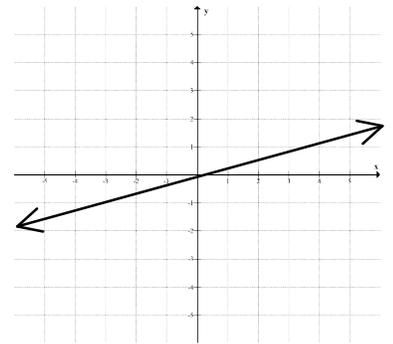
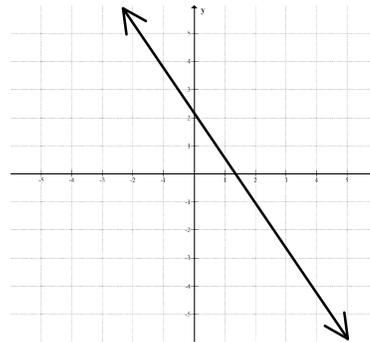
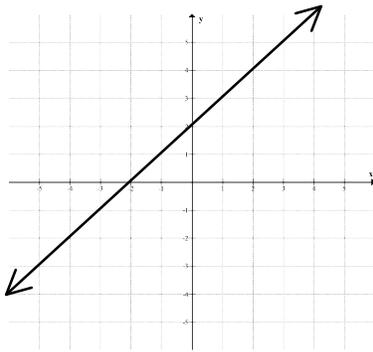
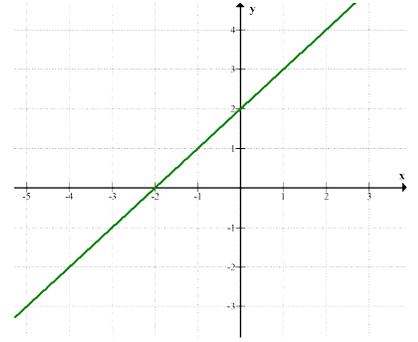
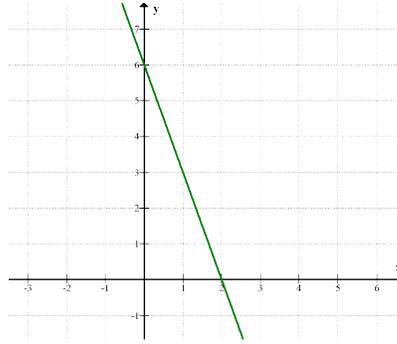
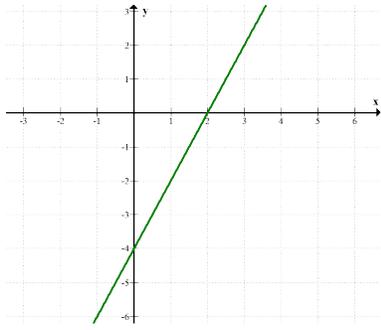


$$y = -\frac{1}{5}x - 2$$



M10 - 7.2 - Find Equation Slope Intercept Form HW

Find the equations in Slope Intercept Form of the following lines.



M10 - 7.3 - Identify Slope/Point Slope Point Form HW

Identify the slope and the point of the following equation.

$$y - 1 = 2(x - 2)$$

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

$$y - 2 = 2(x + 1)$$

$$y - 2 = (x - 1)$$

$$y + 3 = 2(x - 1)$$

$$y + 5 = \frac{1}{2}(x + 1)$$

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

$$y + 4 = -(x + 2)$$

$$y = 2(x - 1)$$

$$y + 2 = (x)$$

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

$$y = (x)$$

M10 - 7.3 - Point/Slope: Find Eq. Slope Point Form HW

$$y - y_1 = m(x - x_1)$$

Write in slope-point form.

$$(1,2), \quad m = 2$$

$$(2,-3), \quad m = 4$$

$$(-2,3), \quad m = 2$$

$$(-3,-2), \quad m = \frac{1}{2}$$

$$(1,5), \quad m = -\frac{2}{3}$$

$$(-2,-3), \quad m = -2$$

$$(-2,-4), \quad m = -5$$

$$(2,-3), \quad m = -1$$

$$(-1,-3), \quad m = \frac{1}{2}$$

$$(0,5), \quad m = -2$$

$$(6,-2), \quad m = -\frac{4}{3}$$

$$(-1,-5), \quad m = 1$$

$$(-3,-1), \quad m = -\frac{5}{4}$$

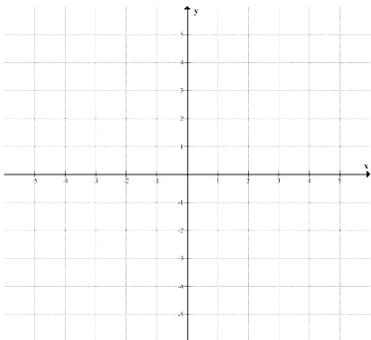
$$(1,0), \quad m = -\frac{2}{3}$$

$$(-1,-2), \quad m = -6$$

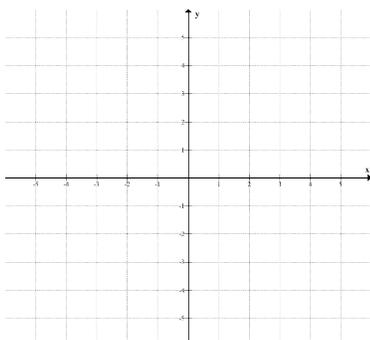
M10 - 7.3 - Graph Slope Point HW

Graph the Following

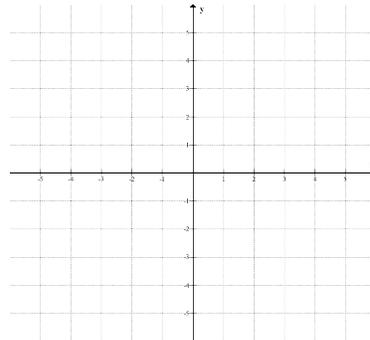
$$y - 1 = 2(x - 2)$$



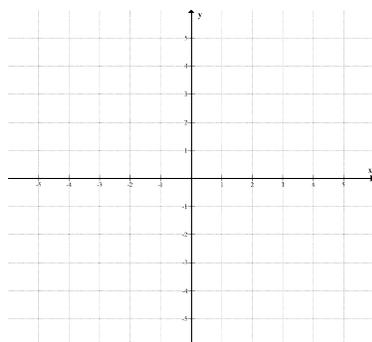
$$y + 3 = \frac{1}{3}(x - 2)$$



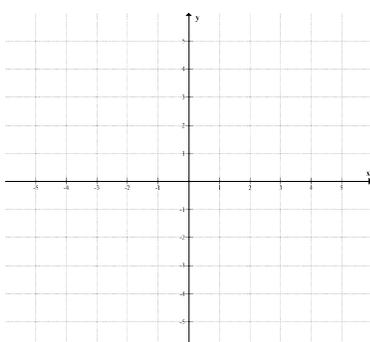
$$y - 2 = 2(x + 1)$$



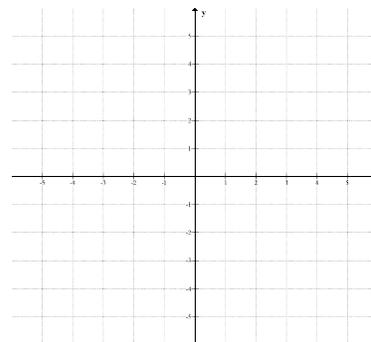
$$y - 2 = (x - 1)$$



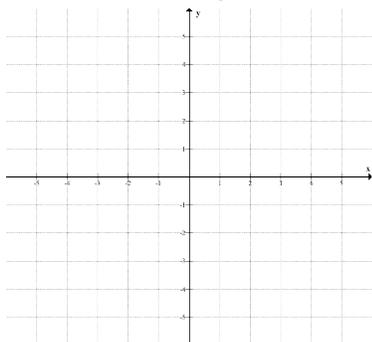
$$y + 3 = 2(x - 1)$$



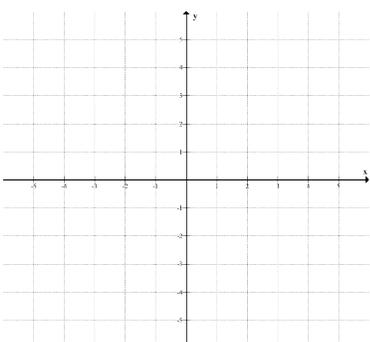
$$y + 5 = \frac{1}{2}(x + 1)$$



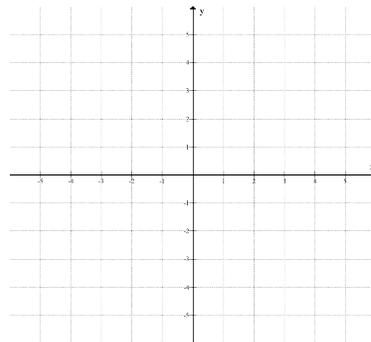
$$y - 3 = -\frac{2}{3}(x + 1)$$



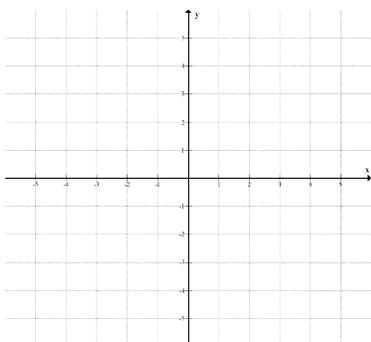
$$y + 4 = -(x + 2)$$



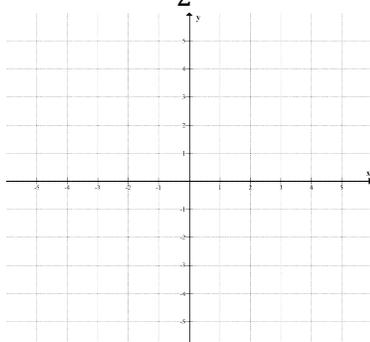
$$y = 2(x - 1)$$



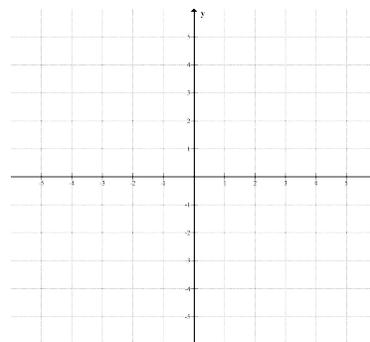
$$y + 2 = (x)$$



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

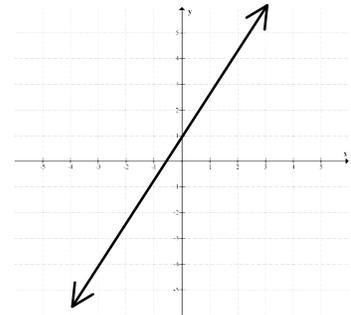
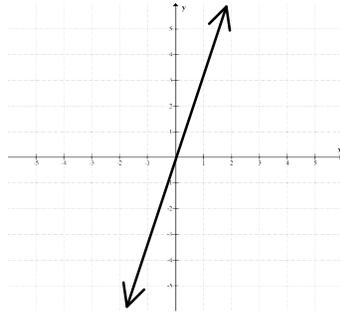
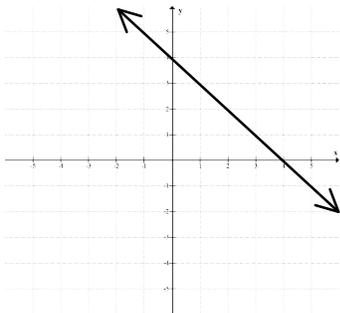
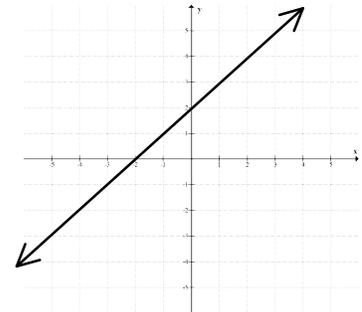
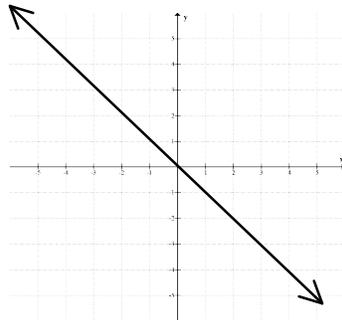
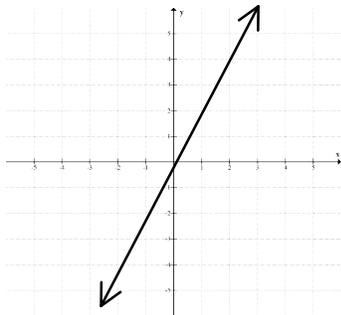
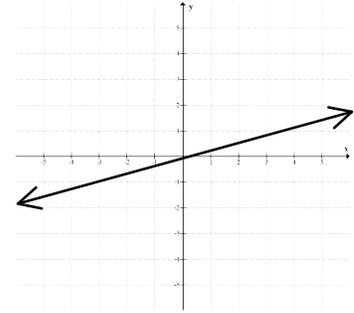
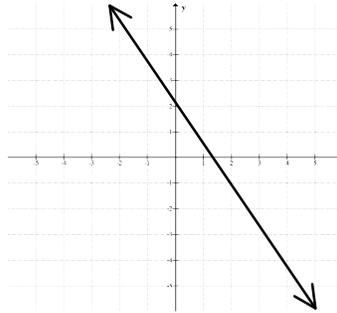
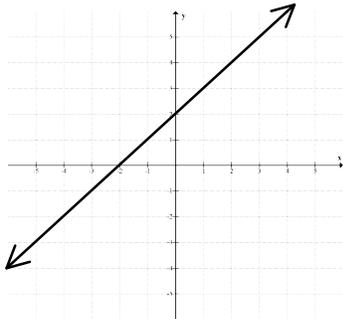
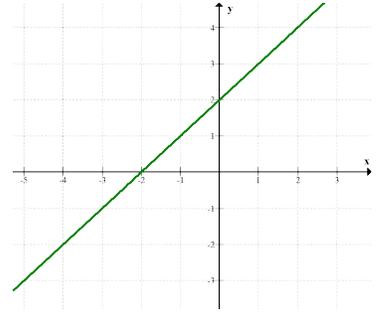
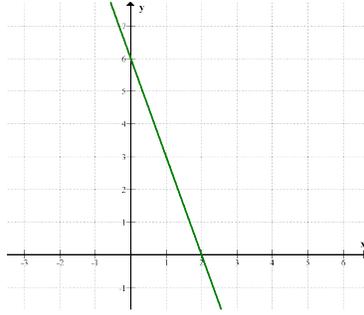
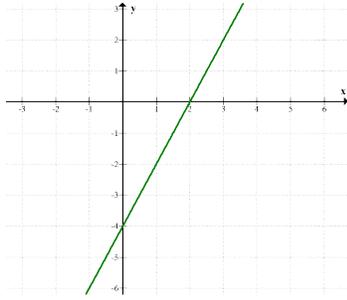


$$y = (x)$$



M10 - 7.3 - Graph: Find Equation Slope Point Form HW

Find the equations in Slope Point Form of the following lines



M10 - 7.4 - Point/Slope: Slope Intercept Form HW

Write in $y = mx + b$

$(1,3), \quad m = 2$

$(-2,3), \quad m = 2$

$(-2,-3), \quad m = -2$

$(-3,-2), \quad m = \frac{1}{2}$

$(2,-3), \quad m = 0$

$(1,5), \quad m = \text{und}$

$(1,2), \quad m = -6$

$(2,-3), \quad m = -1$

$(-1,-3), \quad m = \frac{1}{2}$

$(0,5), \quad m = -2$

$(6,-2), \quad m = -\frac{4}{3}$

$(-1,-5), \quad m = 1$

M10 - 7.4 - Slope Point Form - Slope Intercept Form HW

Write in Slope Intercept Form

$$\begin{aligned}y - 1 &= 3(x - 4) \\y - 1 &= 3x - 12 \\+1 &\quad +1 \\y &= 3x - 11\end{aligned}$$

$$y - 4 = 2(x - 1)$$

$$y - 6 = 4(x - 3)$$

$$y + 5 = 3(x - 4)$$

$$y + 3 = 1(x - 2)$$

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

$$y - 9 = 7(x + 5)$$

$$y - 7 = 5(x + 1)$$

$$y - 3 = 1(x + 4)$$

$$y + 5 = 3(x + 5)$$

$$y + 4 = \frac{2}{3}(x + 3)$$

$$y + 8 = 6(x + 5)$$

$$y - 4 = -2(x - 1)$$

$$y - 3 = -1(x - 2)$$

$$y + 7 = -\frac{5}{2}(x - 3)$$

$$y + 10 = -\frac{8}{3}(x + 5)$$

$$y - 10 = -8(x + 1)$$

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

M10 - 7.4 - Slope Intercept Form - General Form HW

Write in General Form

$$y = 1x + 4$$

$$y = 5x + 9$$

$$y = 6x + 8$$

$$y = 1x - 8$$

$$y = 8x - 2$$

$$y = 7x - 3$$

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

$$y = \frac{4}{3}x + 5$$

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

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

$$y = 8x$$

$$y = 9$$

M10 - 7.4 - Slope Point Form - General Form HW

Write in General Form

$$y - 4 = 3(x - 1)$$

$$y - 4 = 3x - 3$$

$$+4 \quad +4$$

$$y = 3x + 1$$

$$-y \quad -y$$

$$0 = 3x - y - 1$$

$$y - 4 = 2(x - 5)$$

$$y - 8 = 6(x - 3)$$

$$y - 7 = 5(x + 2)$$

$$y - 2 = \frac{1}{2}(x + 5)$$

$$y + 6 = 4(x - 5)$$

$$y + 3 = 1(x - 2)$$

$$y + 4 = \frac{2}{3}(x + 4)$$

$$y + 4 = 2(x + 5)$$

$$y - 9 = -\frac{7}{3}(x - 2)$$

$$y - 4 = -2(x + 4)$$

$$y + 9 = -3(x - 1)$$

M10 - 7.4 - General Form - Slope Intercept Form HW

Write in Slope Intercept Form

$$3x + 1y + 3 = 0$$

$$3x + y + 3 = 0$$

$$-3x \qquad -3x$$

$$y + 3 = -3x$$

$$-3 \qquad -3$$

$$y = -3x - 3$$

$$x + y + 4 = 0$$

$$2x - y + 4 = 0$$

$$8x + 8y - 8 = 0$$

$$2x + \frac{1}{2}y - 4 = 0$$

$$16x + 4y - 4 = 0$$

$$-32x + 8y + 16 = 0$$

$$-8x + \frac{4}{3}y - 12 = 0$$

$$-\frac{3}{2}x - 3y + 12 = 0$$

$$\frac{1}{2}x - \frac{2}{3}y + 9 = 0$$

$$-\frac{2}{3}x + \frac{1}{6}y - 2 = 0$$

$$-1x - 1y - 3 = 0$$

M10 - 7.5 - Parallel and Perpendicular Slope HW

Find the parallel and perpendicular slope to the following slopes.

$$m = 2$$

$$m = -3$$

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

Parallel: $m = 2$

Perpendicular: $m = -\frac{1}{2}$

$$m = \frac{2}{3}$$

$$m = 0$$

$$m = \textit{undefined}$$

Find the slope of the line, and the slope of the line parallel and perpendicular to it.

$$y = \frac{3}{4}x + 7$$

$$2x + 3y = 5$$

$$y - 2 = 3(x - 4)$$

$$y = 5$$

$$x + 2 = 0$$

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

A line passes through (1,7) and (-3,-1). What is the slope of a line parallel and perpendicular to this line.

M10 - 7.5 - Parallel/Perpendicular Lines HW

Find the value of "p" if the lines are parallel, and if the lines are perpendicular.

$$m = \frac{p}{5}, m = 2$$

Parallel

Perpendicular

$$m = \frac{8}{p}, m = \frac{-1}{2}$$

Parallel

Perpendicular

Are the following parallel, perpendicular, or neither?

$$y = -2x + 1$$
$$y = 2x + 4$$

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

$$y = x + 9$$
$$y = x + 2$$

Find the equation parallel to the following line, passing through the following point.

$$y = 2x + 1, (3, 5)$$

Find the equation perpendicular to the following line, passing through the following point.

$$y = 3x + 2, (6, -3)$$