

# Daily Math

## Week 22 (2013-2014)

Mon. January 27, 2014

Tues. January 28, 2014

Wed. January 29, 2014

Thurs. January 30, 2014

Fri. January 31, 2014

Monday, January 27, 2014 1<sup>st</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{2}{9}, \text{ y-intercept} = 3$$

Monday, January 27, 2014

1<sup>st</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{2}{9}, \text{ y-intercept} = 3$$

Answer:  $y = \frac{2}{9}x + 3$

Monday, January 27, 2014

2<sup>nd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = 3 \quad \text{y-intercept} = \frac{2}{9}$$

Monday, January 27, 2014

2<sup>nd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = 3 \quad \text{y-intercept} = \frac{2}{9}$$

Answer:  $y = 3x + \frac{2}{9}$

Monday, January 27, 2014

3<sup>rd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{9}{2} \quad \text{y-intercept} = 3$$

Monday, January 27, 2014

3<sup>rd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{9}{2} \quad \text{y-intercept} = 3$$

Answer:  $y = \frac{9}{2}x + 3$

Monday, January 27, 2014

4<sup>th</sup>

Find the equation for the line with the following properties:

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



Monday, January 27, 2014

4<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 0 y-intercept = 1

Answer:  $y = 1$

Monday, January 27, 2014

5<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = -1 \quad \text{y-intercept} = -6$$

Monday, January 27, 2014

5<sup>th</sup>

Find the equation for the line with the following properties:

Slope =  $-1$  y-intercept =  $-6$

Answer:  $y = x - 6$

Monday, January 27, 2014

6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{-2}{3} \quad \text{y-intercept} = 5$$

Monday, January 27, 2014

6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{-2}{3} \quad \text{y-intercept} = 5$$

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

Monday, January 27, 2014

7<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 0.3 Point on line: (0,4)

Monday, January 27, 2014

7<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 0.3 Point on line: (0,4)

Answer: The given point is the y-intercept because the x-coordinate is 0.

$$y = 0.3x + 4$$

Tuesday, January 28, 2014

1<sup>st</sup>

Find the equation for the line with the following properties:

Slope = 0.4 Point on line: (0,0.6)



Tuesday, January 28, 2014

1<sup>st</sup>

Find the equation for the line with the following properties:

Slope = 0.4 Point on line: (0,0.6)

Answer: The given point is the y-intercept because the x-coordinate is 0.

$$y = 0.4x + 0.6$$

Tuesday, January 28, 2014

2<sup>nd</sup>

Find the equation for the line with the following properties:

Slope = -7 Point on line:  $(0, \frac{1}{3})$

Tuesday, January 28, 2014

2<sup>nd</sup>

Find the equation for the line with the following properties:

Slope = -7 Point on line:  $(0, \frac{1}{3})$

Answer: The given point is the y-intercept because the x-coordinate is 0.

$$y = -7x + \frac{1}{3}$$

Tuesday, January 28, 2014

3<sup>rd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = -\frac{1}{5} \quad \text{Point on line: } \left(0, -\frac{2}{5}\right)$$

Answer:

Tuesday, January 28, 2014

3<sup>rd</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = -\frac{1}{5} \quad \text{Point on line: } (0, -\frac{2}{5})$$

Answer: The given point is the y-intercept because the x-coordinate is 0.

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

Tuesday, January 28, 2014

4<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = -\frac{1}{4} \quad \text{Point on line: } \left(0, \frac{5}{4}\right)$$

Tuesday, January 28, 2014

4<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = -\frac{1}{4} \quad \text{Point on line: } \left(0, \frac{5}{4}\right)$$

Answer: The given point is the y-intercept because the x-coordinate is 0.

$$y = -\frac{1}{4}x + \frac{5}{4}$$

Tuesday, January 28, 2014

5<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 2 Point on line: (2,3)



Tuesday, January 28, 2014

5<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 2 Point on line: (2,3)

Answer:  $y = 2x + b$

For the point (2, 3),  $3 = 2(2) + b$

$$3 = 4 + b$$

$$-1 = b$$

$$**y = 2x - 1**$$

Tuesday, January 28, 2014

6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{1}{2} \quad \text{Point on line: } (2,1)$$

# Tuesday, January 28, 2014

# 6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{1}{2} \quad \text{Point on line: } (2,1)$$

$$\text{Answer: } y = \frac{1}{2}x + b$$

$$\text{For the point } (2, 1), \mathbf{1} = \frac{1}{2}(\mathbf{2}) + b$$

$$1 = 1 + b$$

$$0 = b$$

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

Tuesday, January 28, 2014

7<sup>th</sup>

Find the equation for the line with the following properties:

Slope =  $-2$  Point on line:  $(-1, -5)$

Tuesday, January 28, 2014

7<sup>th</sup>

Find the equation for the line with the following properties:

Slope =  $-2$  Point on line:  $(-1, -5)$

Answer:  $y = -2x + b$

For the point  $(-1, -5)$ ,  $-5 = -2(-1) + b$

$$-5 = 2 + b$$

$$-7 = b$$

$$y = -2x - 7$$

Wednesday, January 29, 2014 1<sup>st</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{2}{3} \quad \text{Point on line: } (3, -4)$$

# Wednesday, January 29, 2014 1<sup>st</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{2}{3} \quad \text{Point on line: } (3, -4)$$

$$\text{Answer: } y = \frac{2}{3}x + b$$

$$\text{For the point } (3, -4), -4 = \frac{2}{3}(3) + b$$

$$-4 = 2 + b$$

$$-6 = b$$

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

Wednesday, January 29, 2014 **2nd**

Find the equation for the line with the following properties:

Slope = -1 Point on line:  $(-5, 3)$



Wednesday, January 29, 2014 2nd

Find the equation for the line with the following properties:

Slope = -1 Point on line:  $(-5, 3)$

Answer:  $y = -x + b$

For the point  $(-5, 3)$ ,  $3 = -(-5) + b$

$$3 = 5 + b$$

$$-2 = b$$

$$y = -x - 2$$

Wednesday, January 29, 2014 3rd

Find the equation for the line with the following properties:

Slope = 7 Point on line:  $(-4, -2)$

Wednesday, January 29, 2014 3rd

Find the equation for the line with the following properties:

Slope = 7 Point on line:  $(-4, -2)$

Answer:  $y = 7x + b$

For the point  $(-4, -2)$ ,  $-2 = 7(-4) + b$

$$-2 = -28 + b$$

$$26 = b$$

$$**y = 7x + 26**$$

Wednesday, January 29, 2014 4th

Find the equation for the line with the following properties:

Slope = 3 Point on line: (2,5)

Wednesday, January 29, 2014 4th

Find the equation for the line with the following properties:

Slope = 3 Point on line: (2,5)

Answer:  $y = 3x + b$

For the point (2, 5),  $5 = 3(2) + b$

$$5 = 6 + b$$

$$-1 = b$$

$$**y = 3x - 1**$$

Wednesday, January 29, 2014 5<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 2 Point on line: (1, 4)

Wednesday, January 29, 2014 5<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 2 Point on line: (1, 4)

Answer:  $y = 2x + b$

For the point (1, 4),  $4 = 2(1) + b$

$$4 = 2 + b$$

$$2 = b$$

$$**y = 2x + 2**$$

Wednesday, January 29, 2014 6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{1}{2} \quad \text{Point on line: } (-2, 0)$$



# Wednesday, January 29, 2014 6<sup>th</sup>

Find the equation for the line with the following properties:

$$\text{Slope} = \frac{1}{2} \quad \text{Point on line: } (-2, 0)$$

$$\text{Answer: } y = \frac{1}{2}x + b$$

$$\text{For the point } (-2, 0), \quad 0 = \frac{2}{3}(-2) + b$$

$$0 = -\frac{4}{3} + b$$

$$\frac{4}{3} = b$$

$$y = \frac{1}{2}x + \frac{4}{3}$$

Wednesday, January 29, 2014 7<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 1 Point on line: (3,7)

Wednesday, January 29, 2014 7<sup>th</sup>

Find the equation for the line with the following properties:

Slope = 1 Point on line: (3,7)

Answer:  $y = x + b$

For the point (3, 7),  $7 = (3) + b$

$$7 = 3 + b$$

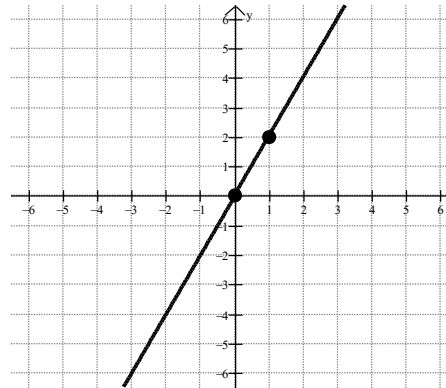
$$4 = b$$

$$**y = x + 4**$$

Thursday, January 30, 2014

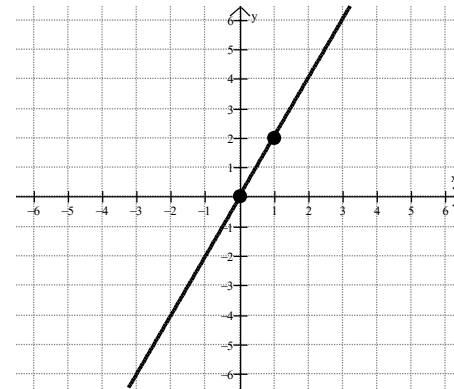
1st

Find the equation for the line with the following graph:



Thursday, January 30, 2014 1st

Find the equation for the line with the following graph:



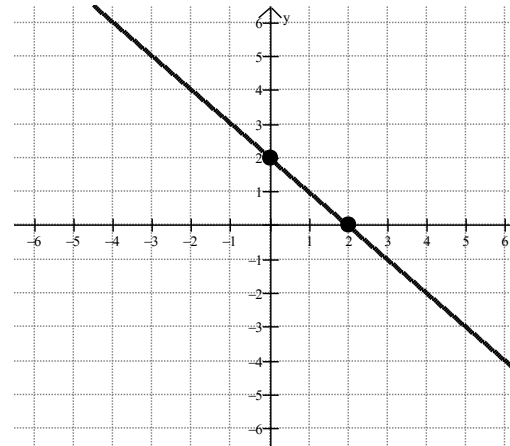
Answer: Slope =  $\frac{\text{rise}}{\text{run}} = \frac{2}{1} = 2$

Intercept = (0, 0)

$y = 2x$

Thursday, January 30, 2014 2nd

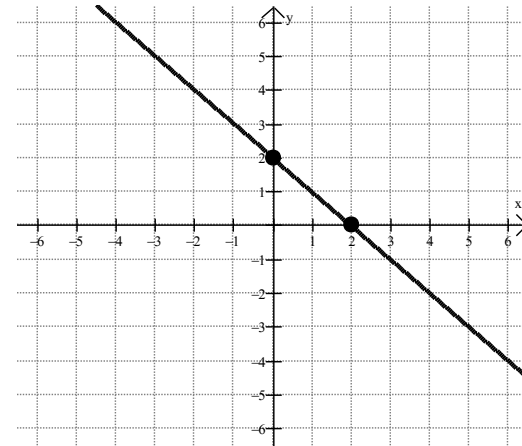
Find the equation for the line with the following graph:



Thursday, January 30, 2014

2nd

Find the equation for the line with the following graph:



Answer: Slope =  $\frac{\text{rise}}{\text{run}} = \frac{-2}{2} = -1$

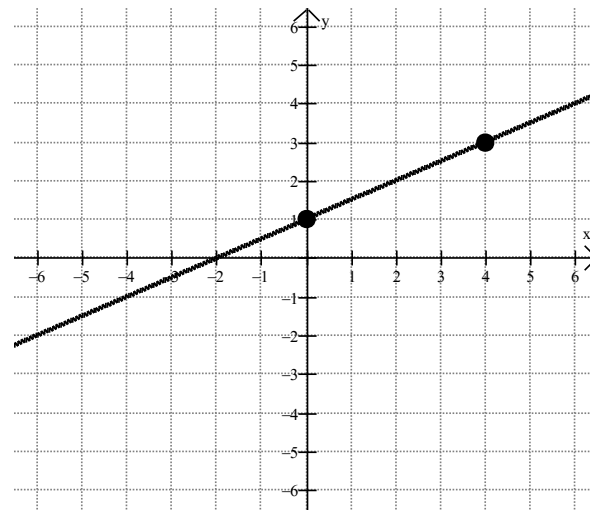
Intercept = (0, 2)

$$y = -x + 2$$

Thursday, January 30, 2014

3rd

Find the equation for the line with the following graph:

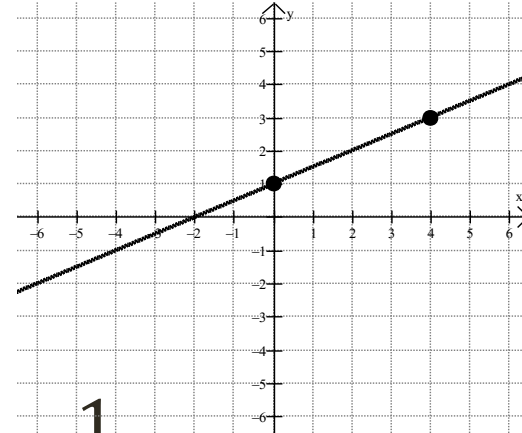




Thursday, January 30, 2014

3rd

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{2}{4} = \frac{1}{2}$$

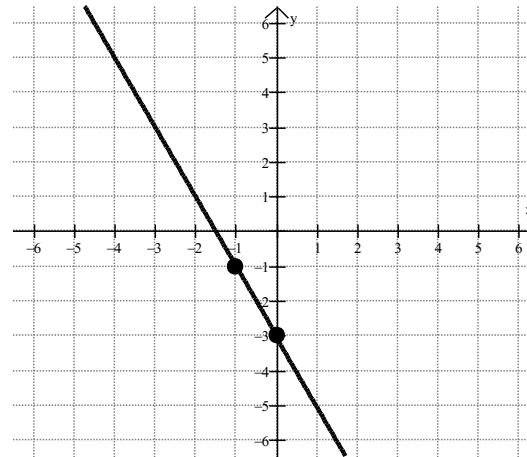
$$\text{Intercept} = (0, 1)$$

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

Thursday, January 30, 2014

4th

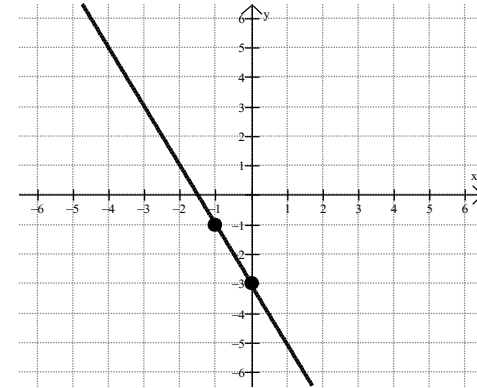
Find the equation for the line with the following graph:



Thursday, January 30, 2014

4th

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{-2}{1} = -2$$

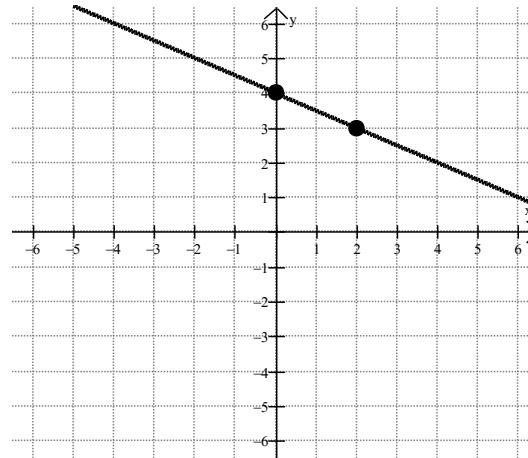
$$\text{Intercept} = (0, -3)$$

$$y = -2x - 3$$

Thursday, January 30, 2014

5th

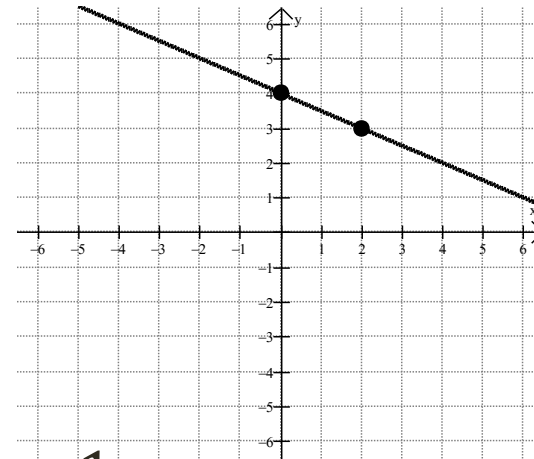
Find the equation for the line with the following graph:



# Thursday, January 30, 2014

# 5th

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{-1}{2} = -\frac{1}{2}$$

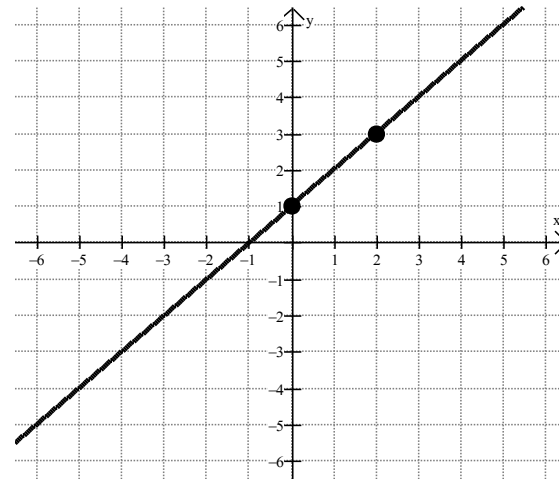
$$\text{Intercept} = (0, 4)$$

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

Thursday, January 30, 2014

6th

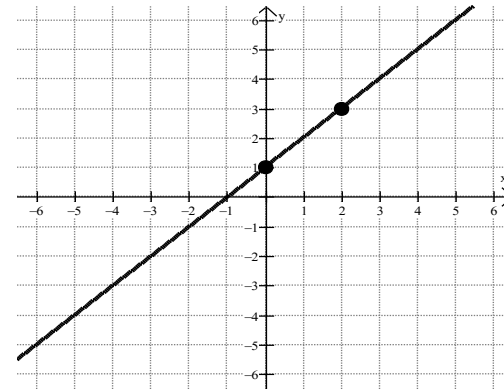
Find the equation for the line with the following graph:



Thursday, January 30, 2014

6th

Find the equation for the line with the following graph:



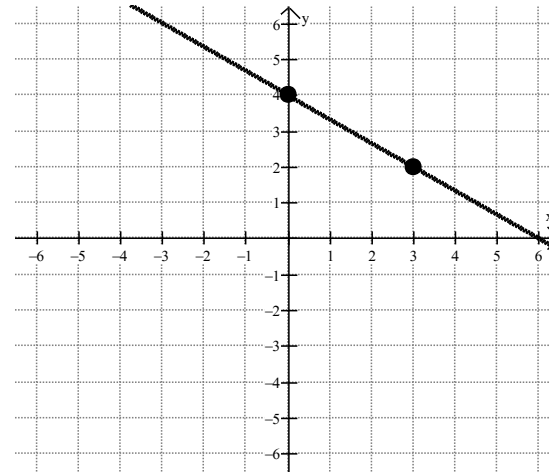
$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{2}{2} = 1$$

$$\text{Intercept} = (0, 1)$$

$$y = x + 1$$

Thursday, January 30, 2014 7th

Find the equation for the line with the following graph:

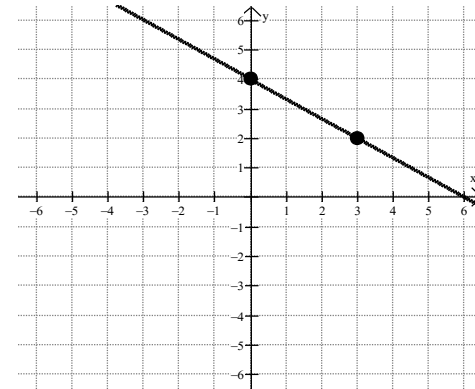




Thursday, January 30, 2014

7th

Find the equation for the line with the following graph:



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

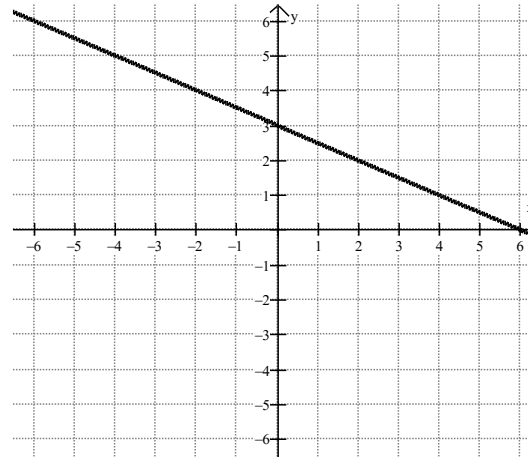
$$\text{Intercept} = (0, 4)$$

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

Friday, January 31, 2014

1st

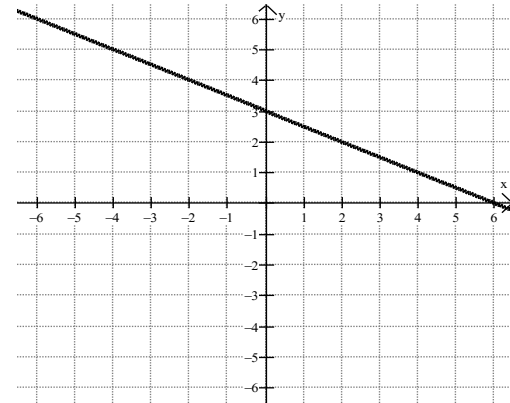
Find the equation for the line with the following graph:



Friday, January 31, 2014

1st

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{-2}{4} = -\frac{1}{2}$$

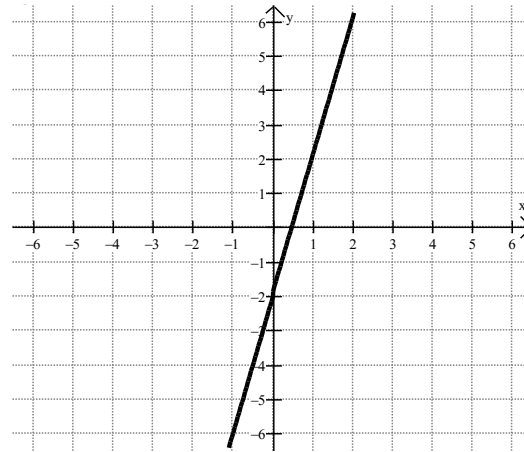
$$\text{Intercept} = (0, 3)$$

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

Friday, January 31, 2014

2nd

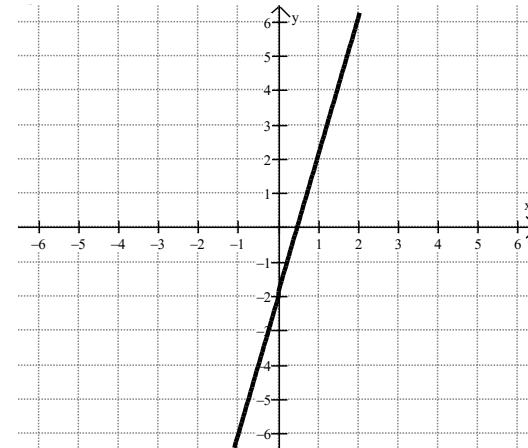
Find the equation for the line with the following graph:



Friday, January 31, 2014

2nd

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{4}{1} = 4$$

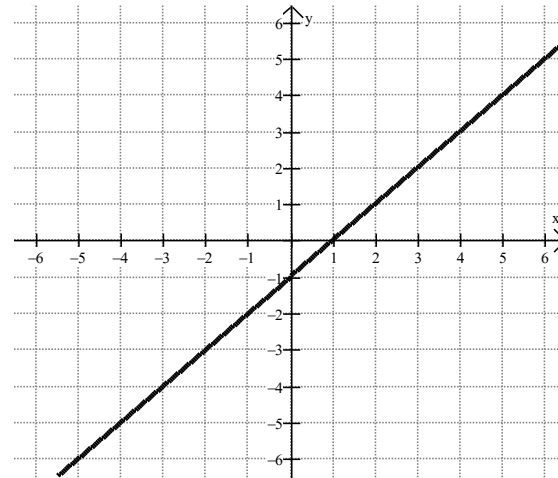
$$\text{Intercept} = (0, -2)$$

$$y = 4x - 2$$

Friday, January 31, 2014

3rd

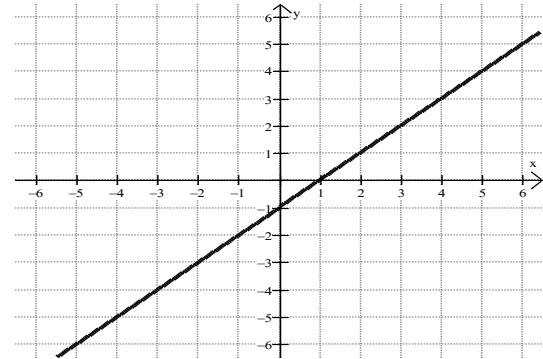
Find the equation for the line with the following graph:



Friday, January 31, 2014

3rd

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{1}{1} = 1$$

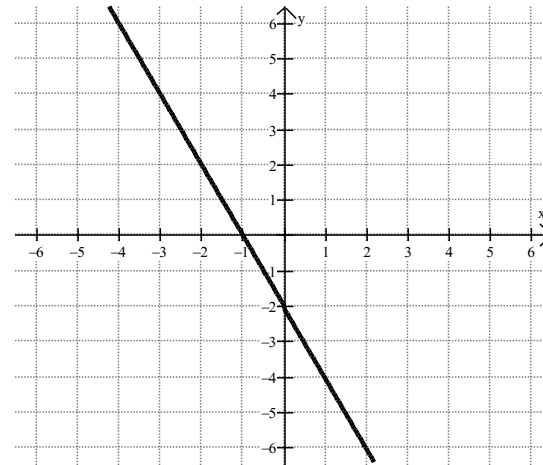
$$\text{Intercept} = (0, -1)$$

$$y = x - 1$$

Friday, January 31, 2014

4th

Find the equation for the line with the following graph:

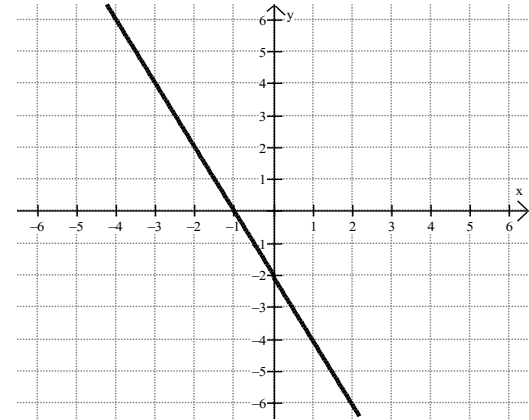




Friday, January 31, 2014

4th

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{-2}{1} = -2$$

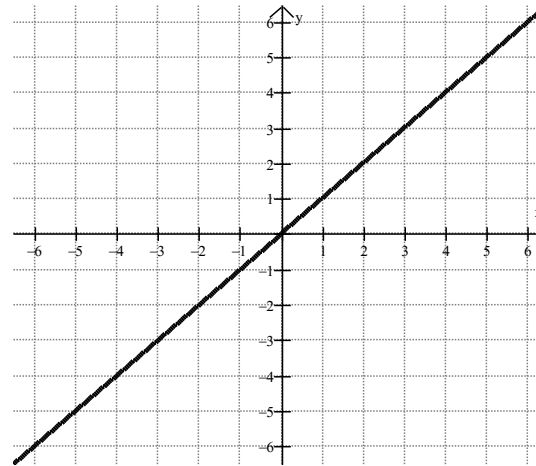
$$\text{Intercept} = (0, -2)$$

$$y = -2x - 2$$

Friday, January 31, 2014

5th

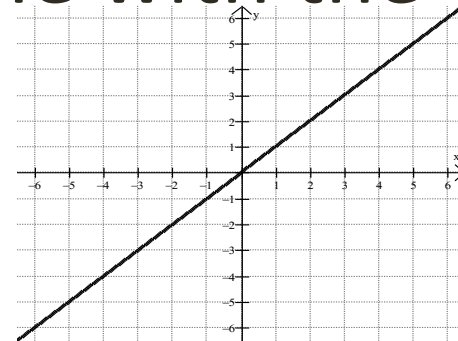
Find the equation for the line with the following graph:



Friday, January 31, 2014

5th

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{1}{1} = 1$$

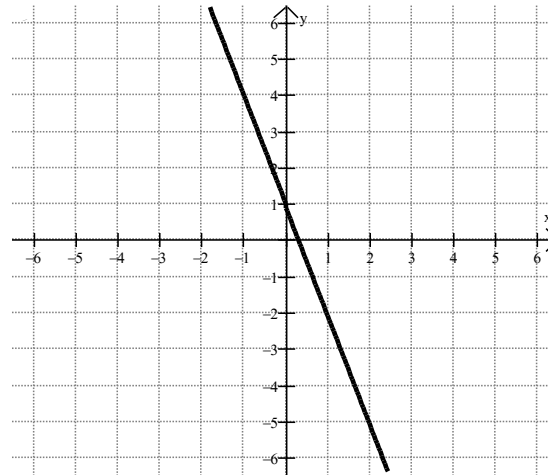
$$\text{Intercept} = (0, 0)$$

$$y = x$$

Friday, January 31, 2014

6th

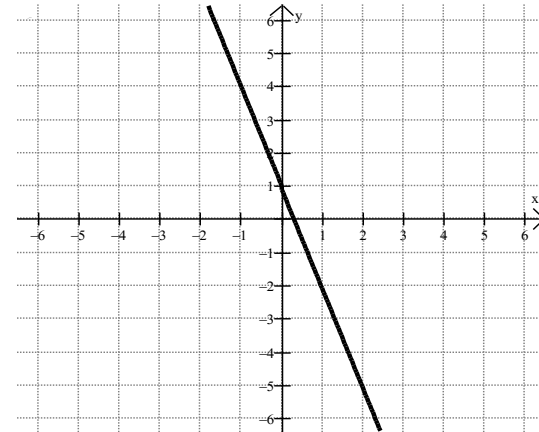
Find the equation for the line with the following graph:



Friday, January 31, 2014

6th

Find the equation for the line with the following graph:



$$\text{Answer: Slope} = \frac{\text{rise}}{\text{run}} = \frac{-3}{1} = -3$$

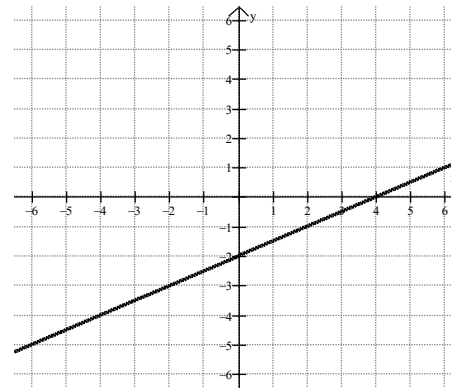
$$\text{Intercept} = (0, 1)$$

$$\mathbf{y = -3x + 1}$$

Friday, January 31, 2014

7th

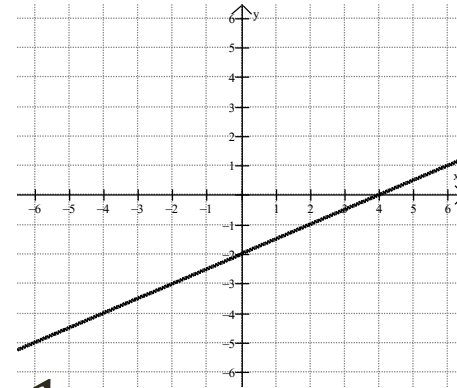
Find the equation for the line with the following graph:



Friday, January 31, 2014

7th

Find the equation for the line with the following graph:



Answer: Slope =  $\frac{\text{rise}}{\text{run}} = \frac{2}{4} = \frac{1}{2}$

Intercept = (0, -2)

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