

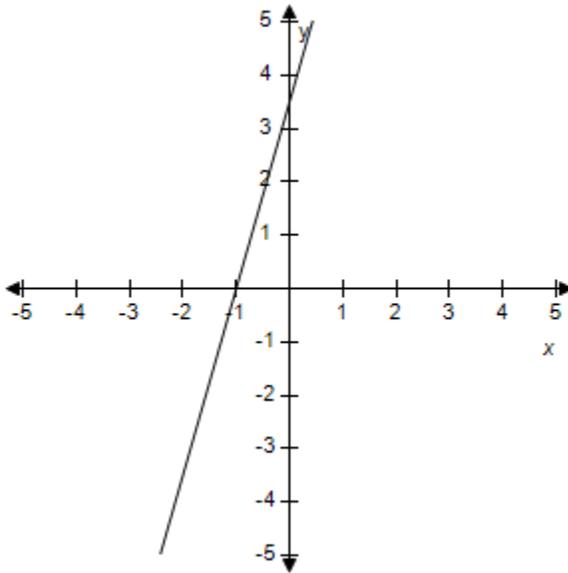
Name
Date

MAT 231
Homework Assignment 3

Chapter 1.3 -Linear Equations in Two Variables

Directions: Provide complete responses to each question. Make sure to show all your work.

1. Estimate the slope of the line.



- a. 5.5
- b. 3.5
- c. 4.5
- d. 6.5
- e. Undefined

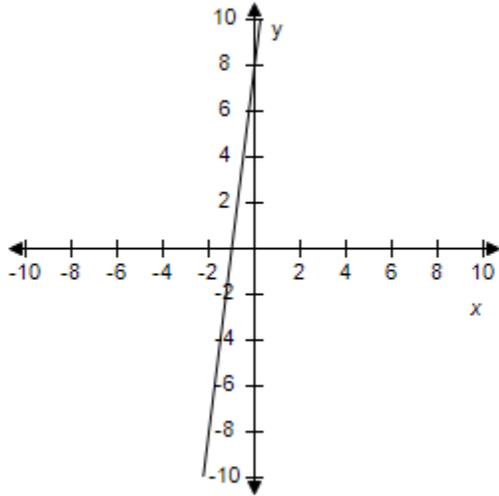
Name
Date

MAT 231
Homework Assignment 3

2. Find the slope and y-intercept (if possible) of the equation of the line. Select the correct answer for the line.

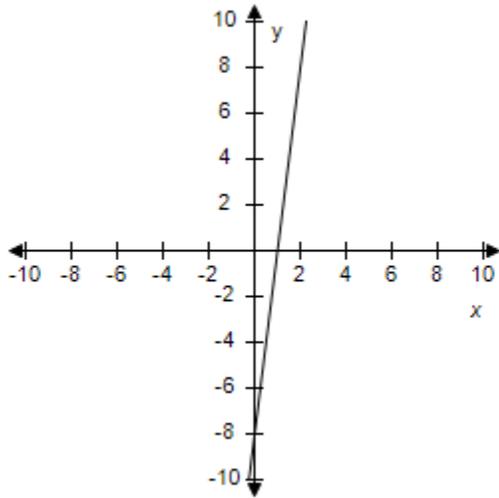
$$y = 8x + 1$$

a.



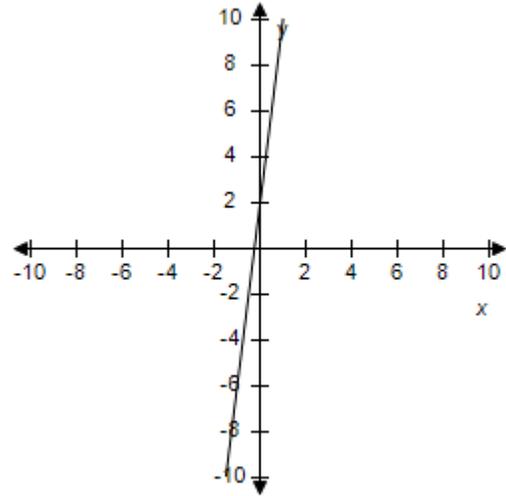
$m = -8$
y-intercept: (0, 1)

c.



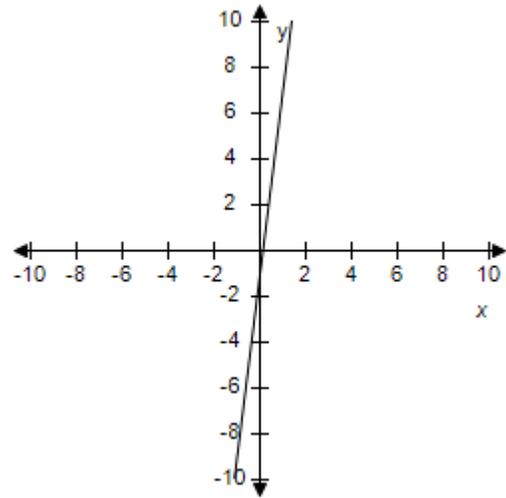
m is undefined.
y-intercept: (0, 1)

b.



$m = -1$
y-intercept: (0, 1)

d.

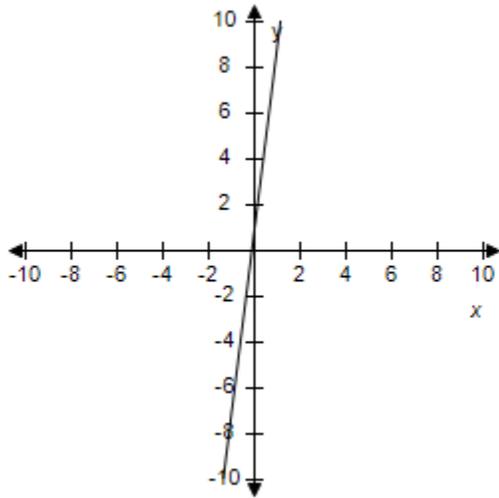


$m = 1$
y-intercept: (0, 1)

Name
Date

MAT 231
Homework Assignment 3

e.



$$m = 8$$

y-intercept: (0, 1)

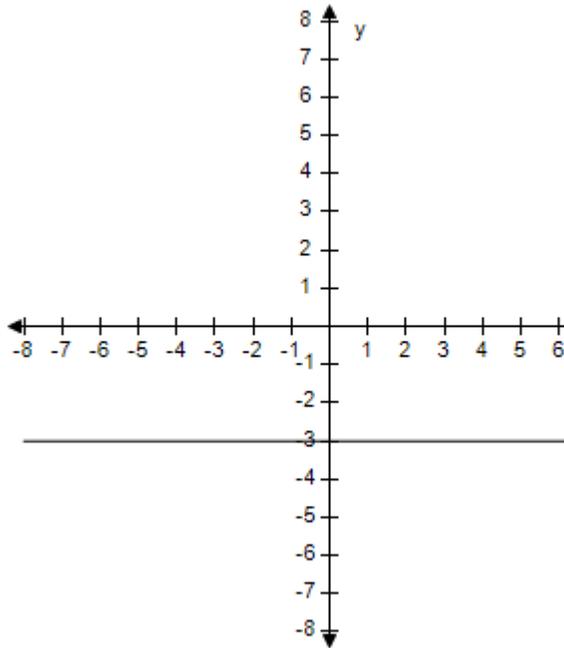
Name
Date

MAT 231
Homework Assignment 3

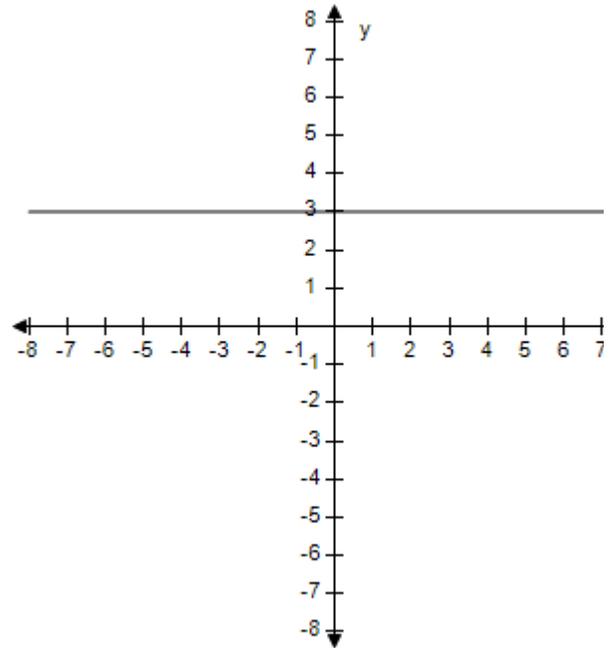
3. Find the slope and y-intercept (if possible) of the equation of the line. Select the correct answer for the line.

$$y - 3 = 0$$

a



$m = -3$
y-intercept: $(0, -3)$

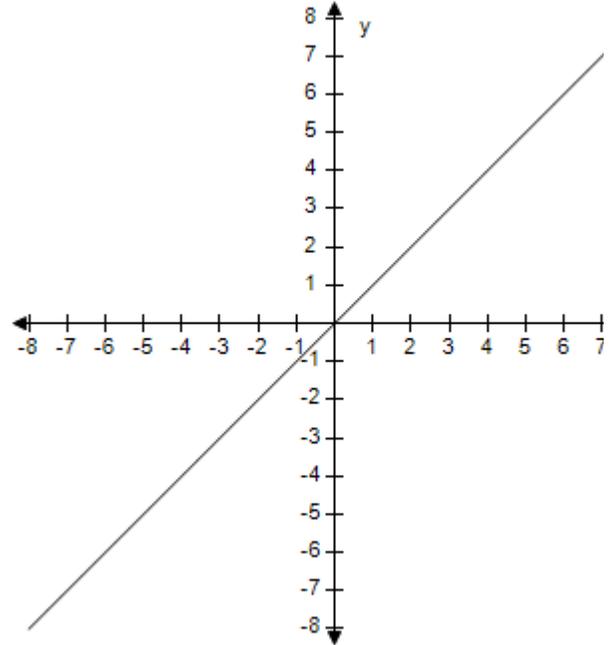
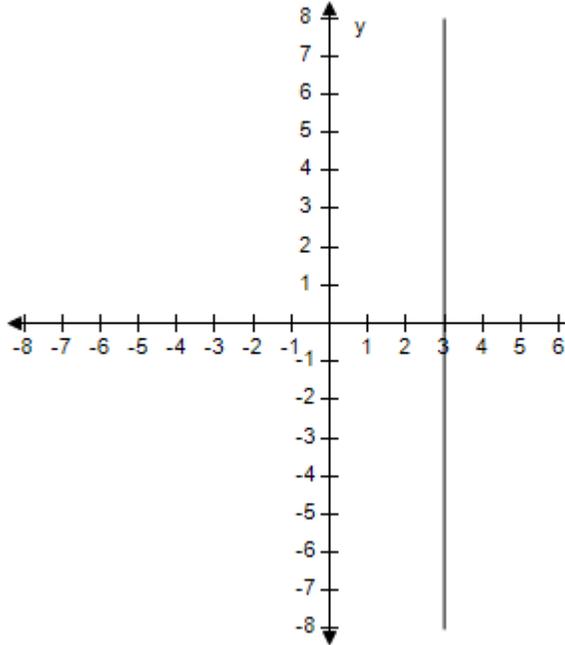


$m = 0$
y-intercept: $(0, 3)$

Name
Date

MAT 231
Homework Assignment 3

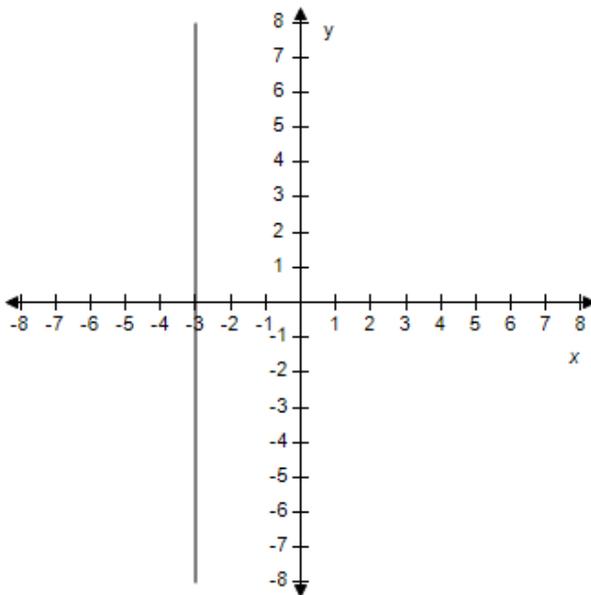
c



m is undefined.
There is no y-intercept.

$m = 0$
There is no y-intercept.

e



$m = 0$
There is no y-intercept.

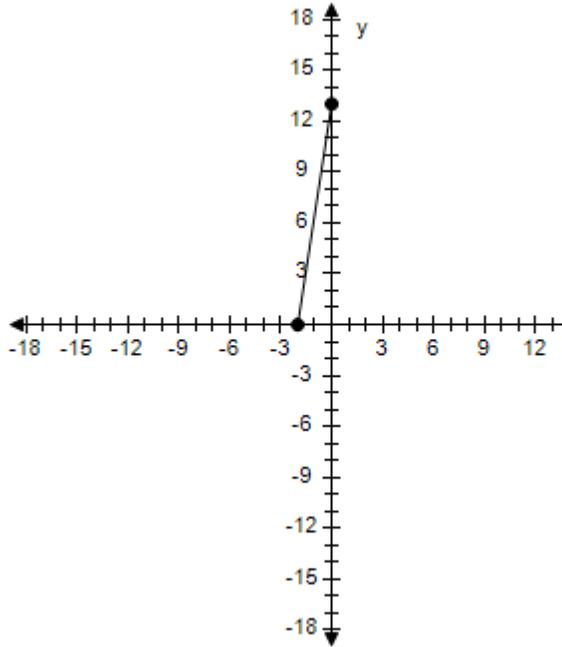
Name
Date

MAT 231
Homework Assignment 3

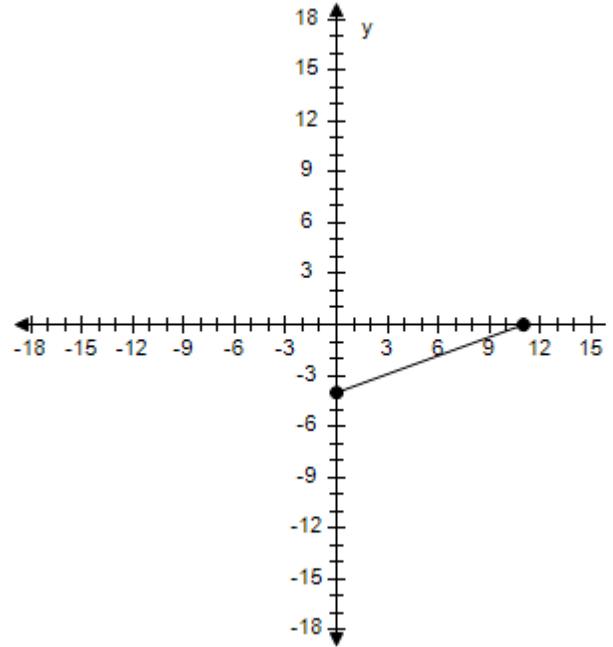
4. Find the slope of the line passing through the pair of points.

$(11, 0), (0, -4)$

a



$$m = -\frac{2}{13}$$

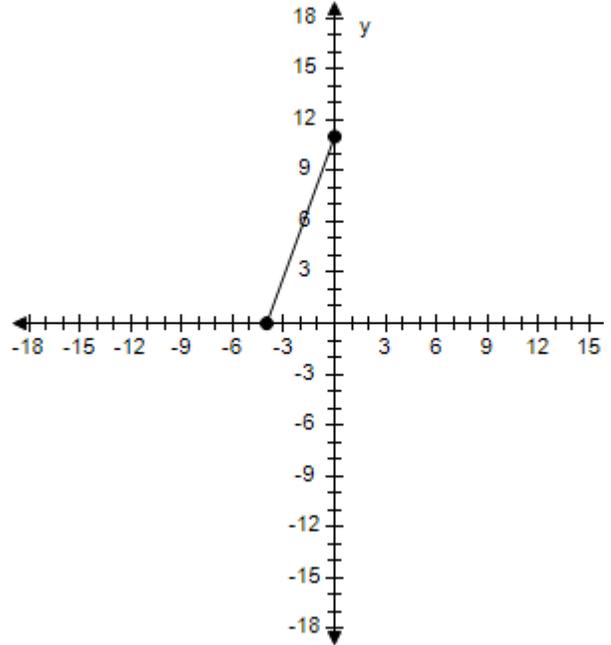
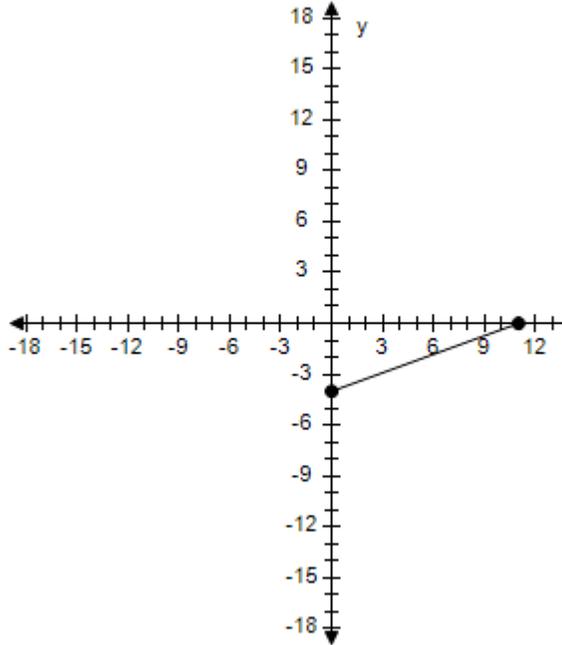


$$m = \frac{11}{4}$$

Name
Date

MAT 231
Homework Assignment 3

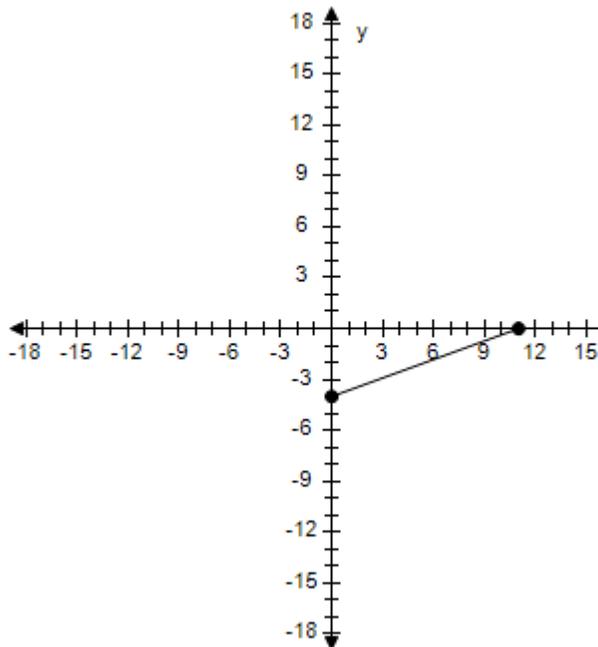
c



$$m = \frac{4}{11}$$

$$m = -\frac{4}{11}$$

e



$$m = -\frac{11}{4}$$

Name
Date

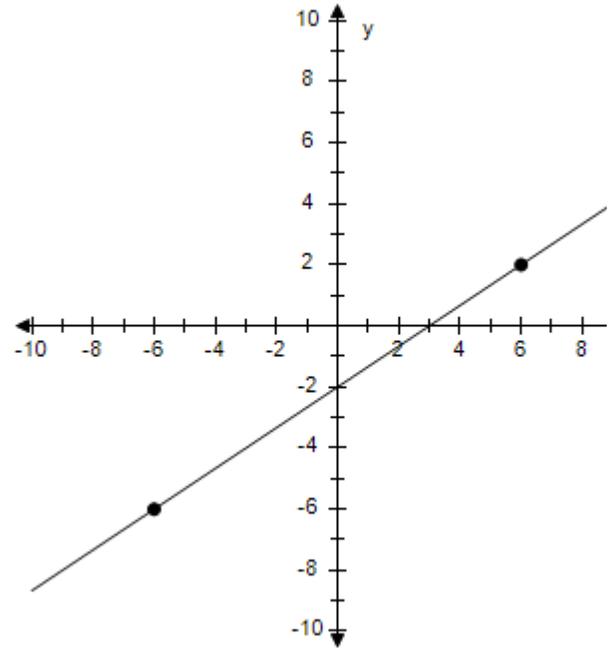
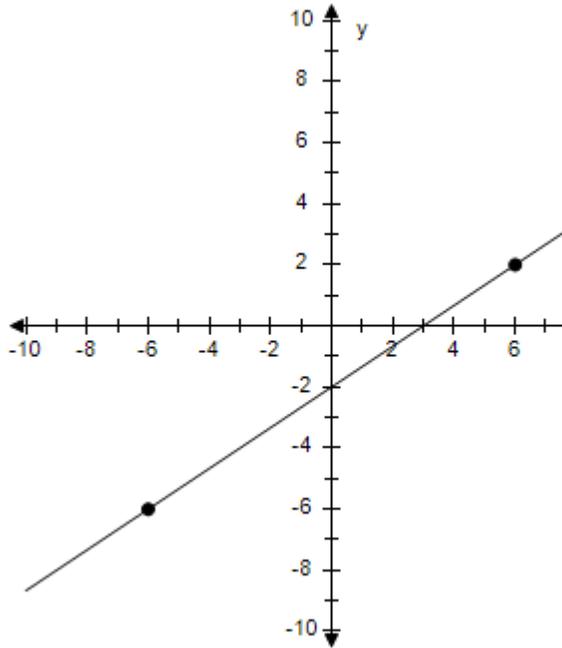
MAT 231
Homework Assignment 3

5. Find the slope-intercept form of the equation of the line passing through the points. Select the correct answer for the line.

P(6, -2), Q(-6, 6)

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

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

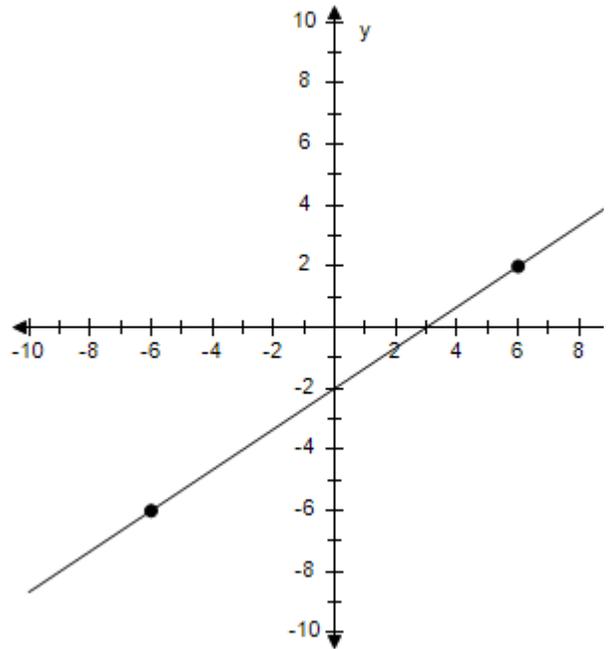
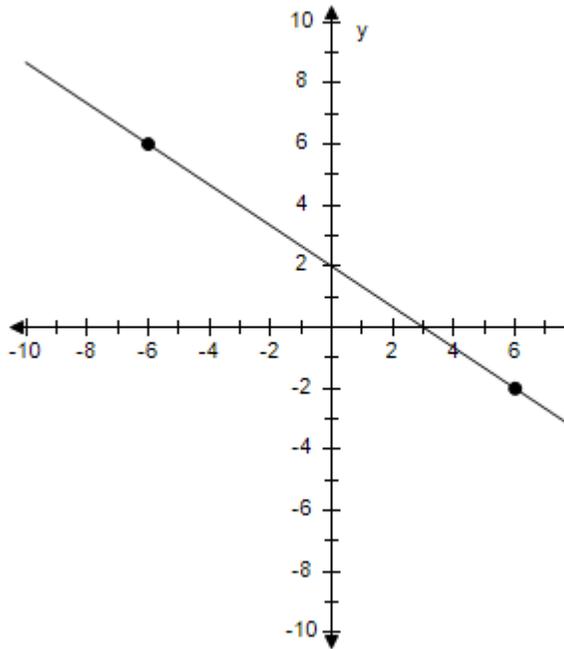


c $y = \frac{2}{3}x + 2$

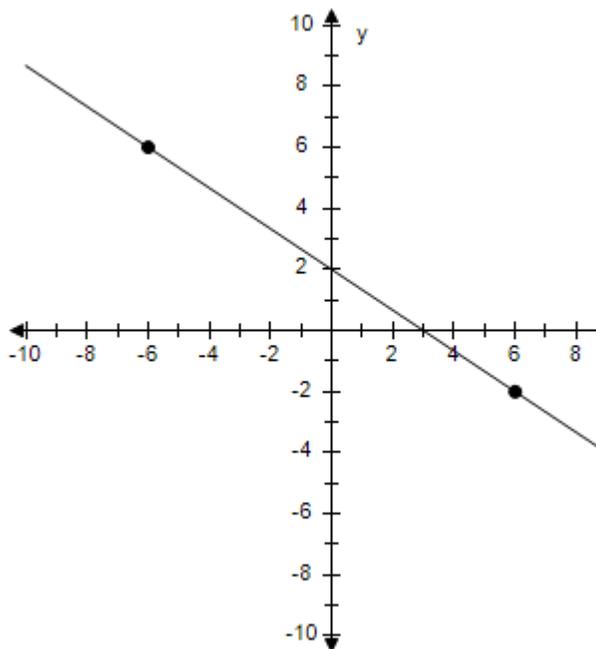
d $y = \frac{2}{3}x - 4$

Name
Date

MAT 231
Homework Assignment 3



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



Name
Date

MAT 231
Homework Assignment 3