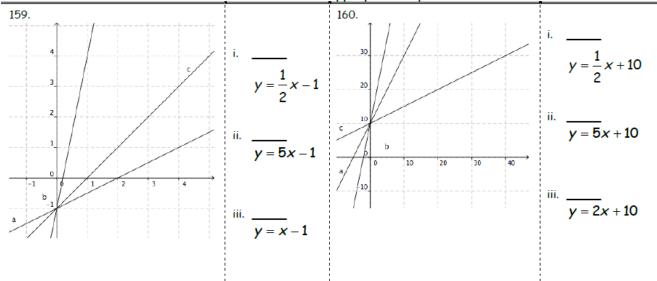


PRACTICE

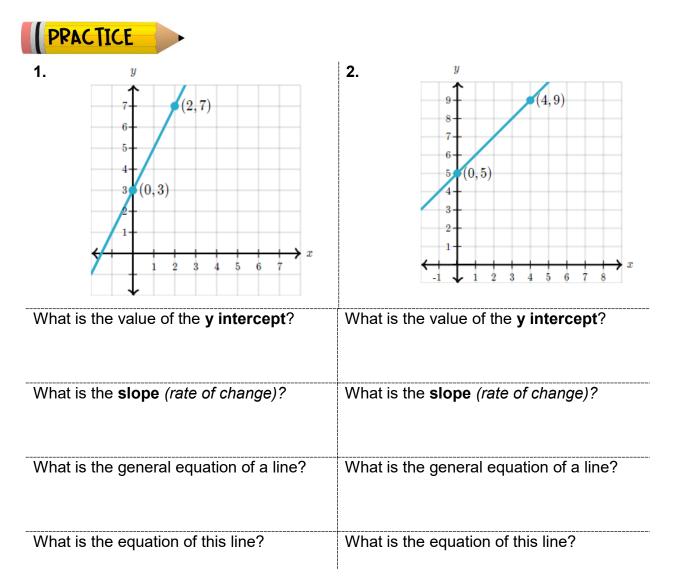
Match the letter from each linear relation to the appropriate equation.

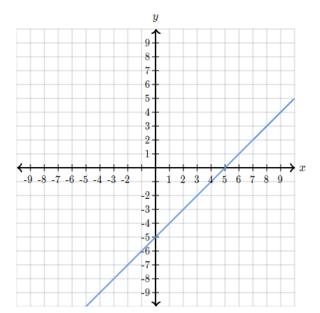


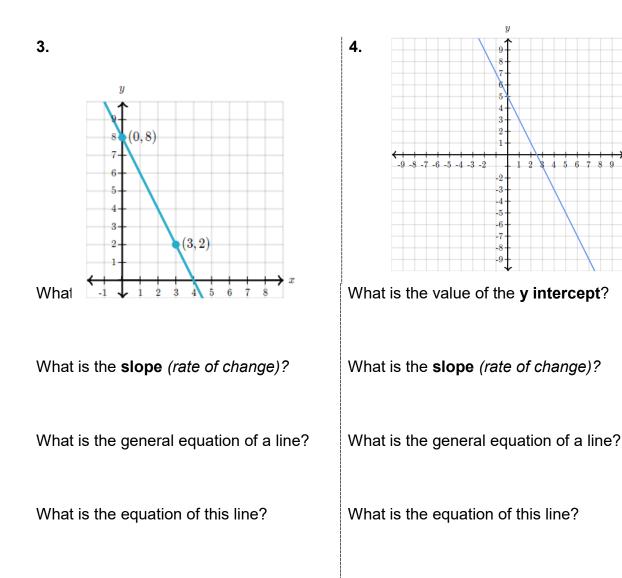
Example #1:

Using the graph on the right, answer the following questions:

- 1. What is the value of the y intercept?
- 2. What is the slope (rate of change)?
- 3. What is the general equation of a line?
- 4. What is the equation of this line?

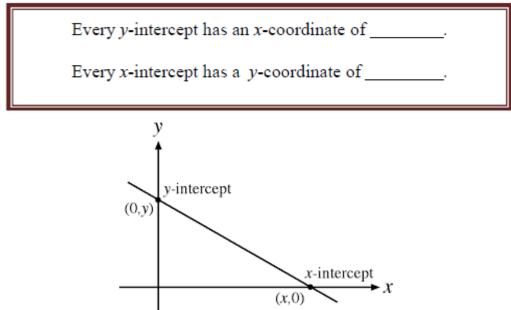






B) FINDING THE X AND Y INTERCEPTS

We have looked at the terms *x-intercept and y-intercept* before. Now we will look at ways TO FIND the x and y intercepts using the equation for a linear relation.



3

Example #1:

Graph the line 2x + y = 8

Plot the x-intercept and the y-intercept and connect the points

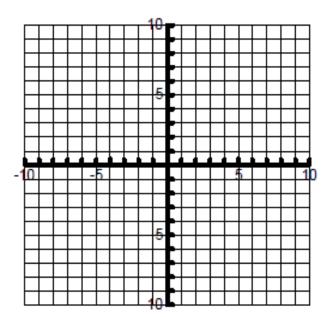
To find the *y*-intercept:

- 1) when a line crosses the y-axis, x = 0 <u>always</u>
- **2** substitute x = 0 into the equation for the line
- 3 solve for 'y' as the unknown variable.

To find the *x*-intercept:

- (1) when a line crosses the x-axis, y = 0 <u>always</u>
- 2 substitute y = 0 into the equation for the line
 3 rearrange and solve for 'x' as the unknown

variable.



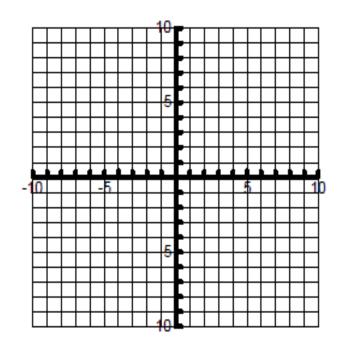


1.Using the method above, graph the line

$$2x = 18 - 6y$$

x-intercept:

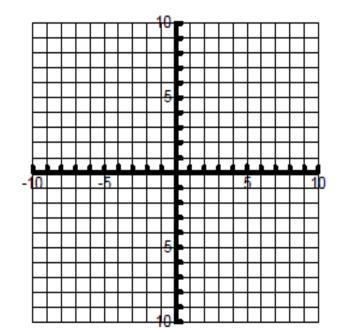
y-intercept:



2. Using the method above, graph the line:

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

x-intercept:



y-intercept:

- 3. Consider the line defined by: 4x + 2y = 6
- a) Determine the x-intercept and *write the coordinates* of this point.
- b) Determine the y-intercept and *write the coordinates* of this point.

Homework	Required	Extra Practice	Extension
Assignment #5.4 pg 194-199	2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15	1, 10, 12, 14, 16	17, 18, 19, 20
Chapter Review (practice test) Pg 201 - 203	2, 3, 4, 6, 7, 8, 10a, 11,12	1, 5, 9, 10ь, 13	