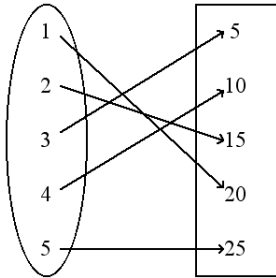


## Assignment 2

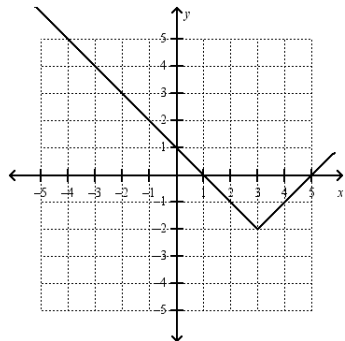
### Chapter 4

1. Use the function diagram to answer questions a-d.



- Find  $f(3)$
- Find  $f(1)$
- If  $f(x) = 15$ , what is the value of  $x$ ?
- If  $f(x) = 10$ , what is the value of  $x$ ?

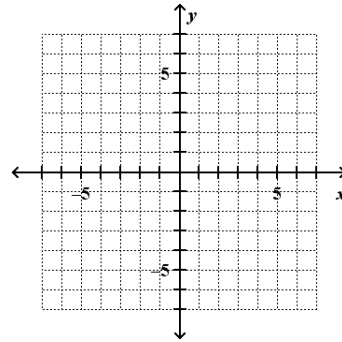
2. Use the graph to answer questions a-f



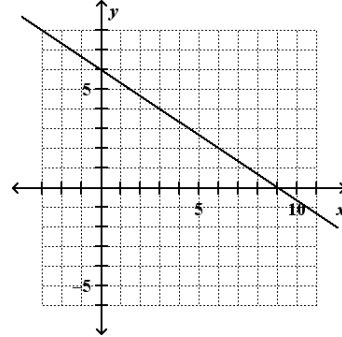
- Find  $f(0)$
- Find  $f(-3)$
- Find  $f(1)$
- If  $f(x) = -2$ , what is the value of  $x$ ?
- If  $f(x) = -1$ , what are two possible values of  $x$ ?
- What is the minimum value of the function?

### Chapter 5

1. Draw a line with  
 $x$ -intercept =  $-3$  and  $y$ -intercept =  $5$ .

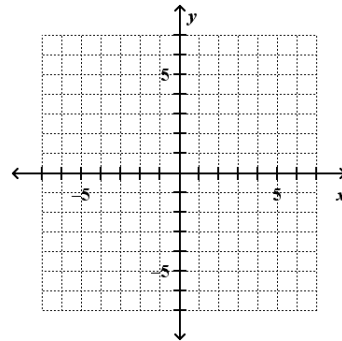


2. Find the intercepts.



$x$ -intercept = \_\_\_\_\_;  $y$ -intercept = \_\_\_\_\_

3. Draw a line with  
 $x$ -intercept =  $4$  and  $y$ -intercept =  $-2$ .



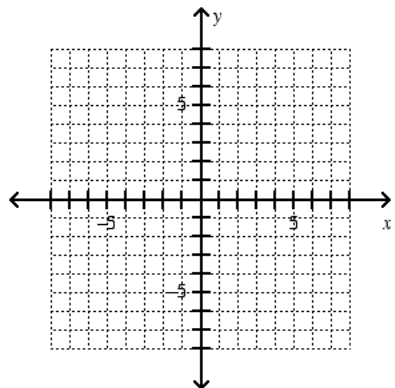
Name: \_\_\_\_\_

Find the  $x$  and  $y$  intercepts for the following lines. List as ordered pairs,  $(x, 0)$  and  $(0, y)$ .

- $2x + 4y = 8$
- $3x - 4y = 12$
- $x + y = 5$
- $x - y = 5$
- $x + 3y = -9$
- $5x - y = 5$
- $-3x + 5y = -15$

Graph each of the following using intercepts.

1.  $2x + 3y = 12$

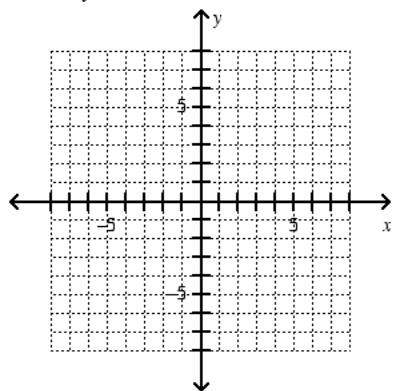


x - int. = \_\_\_\_\_

y - int. = \_\_\_\_\_

now graph

2.  $x + y = 5$

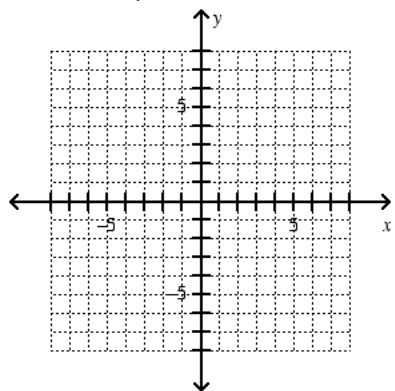


x - int. = \_\_\_\_\_

y - int. = \_\_\_\_\_

now graph

3.  $-3x + 5y = -15$



x - int. = \_\_\_\_\_

y - int. = \_\_\_\_\_

now graph

## Chapter 2

1. Solve for  $c$ :  $a + c = d$

2. Solve for  $x$ :  $x + y = c$

3. Solve for  $y$ :  $ax + y = c$

4. Solve for  $y$ :  $-ax + y = c$

5. Solve for  $y$ :  $ax + y = 6$

6. Solve for  $y$ :  $ax + by = c$

7. Solve for  $y$ :  $ax + by = 5$

8. Solve for  $y$ :  $3x + y = 6$

1. Solve for  $x$ :  $\frac{x}{a} = b$

2. Solve for  $x$ :  $\frac{ax}{b} = c$

3. Solve for  $y$ :  $\frac{3y}{a} = b$

4. Solve for  $y$ :  $\frac{-ay}{5} = c$

5. Solve for  $y$ :  $\frac{ax}{b} + y = 6$

6. Solve for  $y$ :  $ax + \frac{y}{3} = c$

7. Solve for  $x$ :  $\frac{ax}{c} + by = 5$