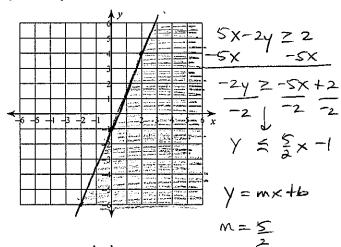
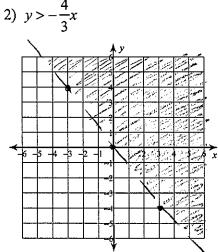
## Review Homework 18.1

Sketch the graph of each linear inequality.









$$M = -\frac{4}{3}$$

## Solve each question. Round your answer to the nearest hundredth.

b=-1

3) A teacher has \$27 to buy grapes and oranges for her 7th grade class. The grapes cost \$3.00 per pound and the oranges cost \$1.50 per pound.

A. Write an equation that can be used to represent the number of pounds of grapes (g) and the number of pounds of oranges (r) that the teacher can buy for \$27?

B. If the teacher buys 6 pounds of grapes, how many pounds of oranges can she buy?

$$9=6$$
 $1.50r=9$ 
 $3(0)+1.50r=27$ 
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$$\frac{1.50 - 29}{1.50}$$

$$r = 6$$

4) For a camping trip, the cost to rent a canoe is \$22 plus \$7.50 per hour.

A. Which of the following equations can be used to represent the total cost (c) of renting a canoe for (h) hours?

B. How much would it cost to rent a canoe for 6 hours?

$$C = 7.50(6) + 22$$
  
 $= 45 + 22 = $^{4}67$ 

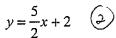
Solve each system by graphing.

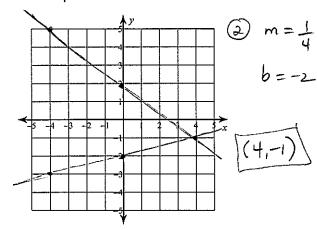
5) 
$$y = -\frac{3}{4}x + 2$$
 (1)

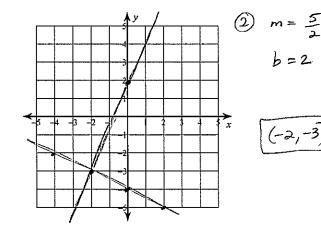
① 
$$m = -\frac{3}{4}$$

6) 
$$y = -\frac{1}{2}x - 4$$

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









b=2

Solve each system by elimination.

7) 
$$6x + 3y = -30 \quad \bigcirc$$

$$-6x + 4y = -26 \quad \bigcirc$$

$$7y = -56$$

$$7 \quad 7$$

$$y = -8$$

$$6x + 3y = -30$$

$$6x + 3(-8) = -30$$

$$6x - 24 = -30$$

$$+24 + 24$$

$$6x = -6$$

$$6$$

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

$$3x + 5(-2) = -4$$

$$3x - 10 = -4$$

$$+ 10 + 10$$

$$3x = 6$$

$$3 = 3$$

$$x = 2$$

Solve each system by substitution.

9) 
$$-3x + 6y = 15$$
  
 $y = [x+3]$ 
 $3x = -3$   
 $-3x + 6(x+3) = 15$ 
 $-3x + 6x + 18 = 15$ 
 $3x + 18 =$ 

11) 
$$\frac{v}{10} = \frac{(v-4)}{6}$$
  
 $6v = 10(v-4)$   
 $6v = 10v - 40$   
 $-\frac{10v}{-4} = \frac{-40}{-4}$   
 $v = 10$ 

Solve each equation.

Solve each equation.  
13) 
$$-7(2\nu+4) = -6(3\nu+8)$$
  
 $-14\nu-28 = -18\nu-48$   
 $+18\nu$   $+18\nu$   
 $4\nu-28 = -48$   
 $+28$   $+38$   
 $4\nu = -20$   
 $4$ 

10) 
$$y = \boxed{x+5}$$
  
 $-x+4y=23$   
 $-x+4(x+5)=23$   
 $-x+4x+20=23$   
 $3x+20=23$   
 $-20-20$   
 $3x=3$   
 $3x=3$   
 $3x=3$   
 $3x=1$ 

$$12) \frac{x}{(x-10)} = \frac{4}{5}$$

$$5x = 4(x-(0))$$

$$5x = 4x - 40$$

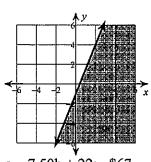
$$-4x - 4x$$

$$x = -40$$

14) 
$$-8x + 2(1 - 2x) = -2(-3 + 8x)$$
  
 $-8x + 2 - 4x = 6 - 16x$   
 $-12x + 2 = 6 - 16x$   
 $+16x + 16x + 16x$   
 $4x + 2 = 6$   
 $-2 - 2$   
 $4x = 4$   
 $4 = 4$   
 $4 = 4$   
 $4 = 4$ 

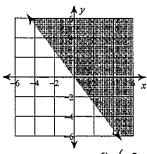
## Answers to Review Homework 18.1

1)



- 4) c = 7.50h + 22; \$67
- 8) (2, -2) 12) {-40}

2)



- 5) (4, -1) 9) (-1, 2) 13) { All real numbers. }
- 6) (-2, -3) 10) (1, 6) 14) {1}

3) 3.00 g + 1.5 r = 27; 6 pounds

7) (-1, -8) 11) {10}