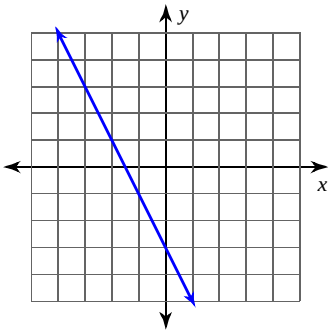
Math 8 Name_____

End of Module 4 Test Review

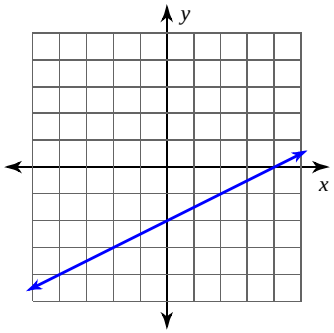
Date_____

Find the slope of each line.

1)



2)



3) $y = \frac{2}{3}x + 5$

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

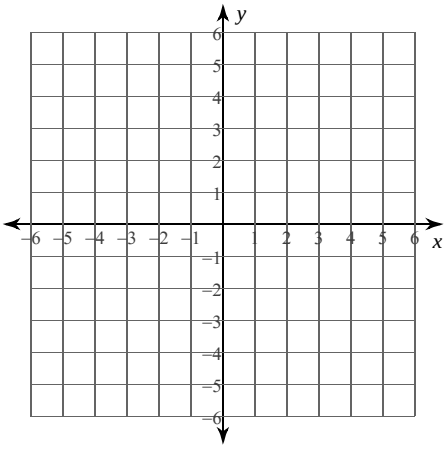
Write the slope-intercept form of the equation of each line.

5) $3x - y = -3$

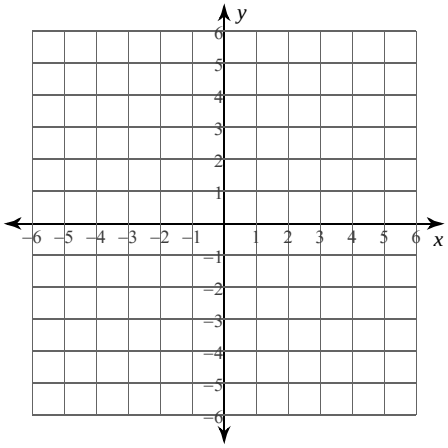
6) $11x + 6y = 18$

Sketch the graph of each line.

7) $y = -\frac{1}{5}x + 3$



8) $4x - y = 4$



Find the slope of the line through each pair of points.

9) $(20, 18), (-1, -18)$

10) $(7, -3), (-1, 4)$

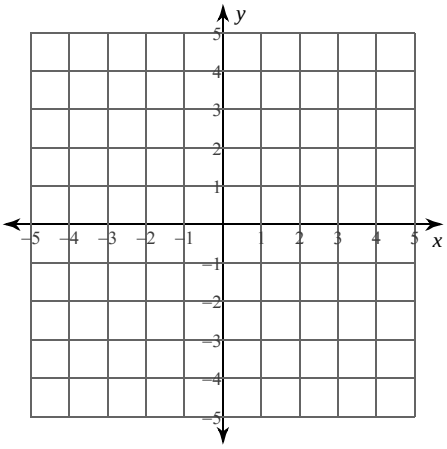
Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, 4)$ and $(2, -2)$

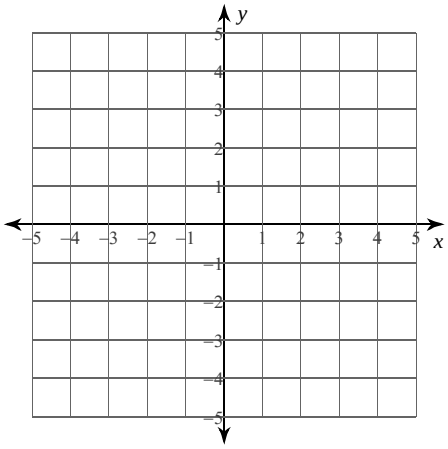
12) through: $(-1, 4)$ and $(0, 5)$

Solve each system by graphing.

13) $x - 3y = -6$
$x + y = -2$



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



Solve each system by substitution.

15) $y = -4x + 6$
$-8x - 2y = -12$

16) $6x + 2y = -10$
$y = -8x - 10$

Solve each system by elimination.

17) $10x + 10y = 10$
$-10x - 9y = -13$

18) $-10x + 2y = 4$
$-20x - 3y = -6$

19) $-7x - 5y = -30$
$-3x - 2y = -14$

20) The school that Lisa goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 1 senior citizen ticket and 9 child tickets for a total of $82. The school took in $110 on the second day by selling 3 senior citizen tickets and 10 child tickets. What is the price each of one senior citizen ticket and one child ticket?

21) New York City is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 8 vans and 3 buses with 154 students. High School B rented and filled 2 vans and 2 buses with 66 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

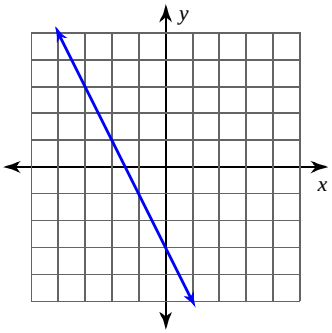
Math 8 Name_____

End of Module 4 Test Review

Date_____

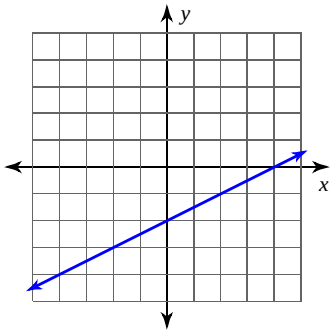
Find the slope of each line.

1)



-2

2)



$\frac{1}{2}$

3) $y = \frac{2}{3}x + 5$ $\frac{2}{3}$

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

Write the slope-intercept form of the equation of each line.

5) $3x - y = -3$

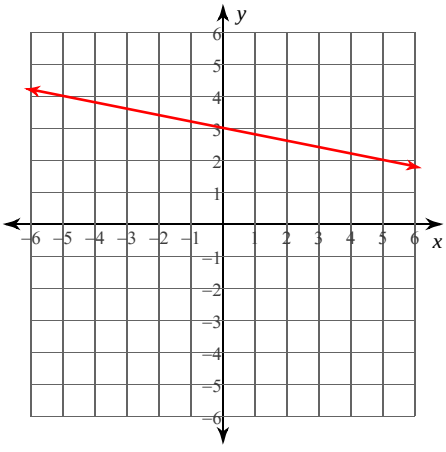
$y = 3x + 3$

6) $11x + 6y = 18$

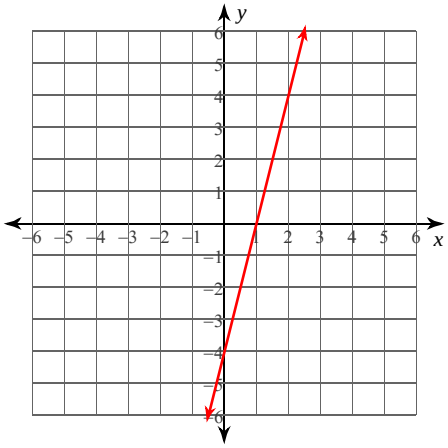
$y = -\frac{11}{6}x + 3$

Sketch the graph of each line.

7) $y = -\frac{1}{5}x + 3$



8) $4x - y = 4$



Find the slope of the line through each pair of points.

9) $(20, 18), (-1, -18)$

$\frac{12}{7}$

10) $(7, -3), (-1, 4)$

$-\frac{7}{8}$

Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, 4)$ and $(2, -2)$

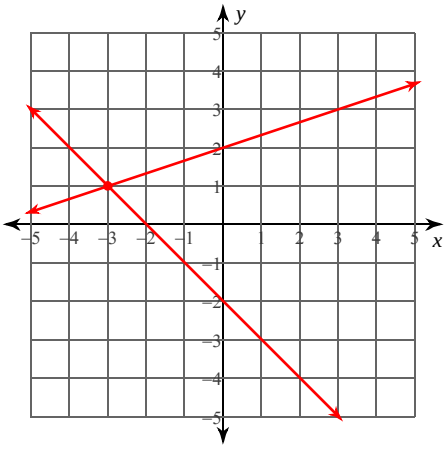
$y = -3x + 4$

12) through: $(-1, 4)$ and $(0, 5)$

$y = x + 5$

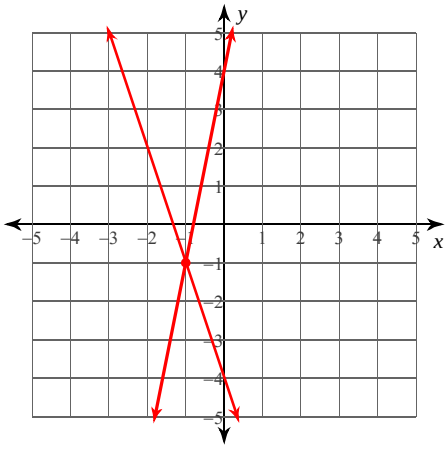
Solve each system by graphing.

13) $x - 3y = -6$
$x + y = -2$



$(-3, 1)$

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



$(-1, -1)$

Solve each system by substitution.

15) $y = -4x + 6$
$-8x - 2y = -12$

Infinite number of solutions

16) $6x + 2y = -10$
$y = -8x - 10$

$(-1, -2)$

Solve each system by elimination.

17) $10x + 10y = 10$
$-10x - 9y = -13$

$(4, -3)$

18) $-10x + 2y = 4$
$-20x - 3y = -6$

$(0, 2)$

19) $-7x - 5y = -30$
$-3x - 2y = -14$

$(10, -8)$

20) The school that Lisa goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 1 senior citizen ticket and 9 child tickets for a total of $82. The school took in $110 on the second day by selling 3 senior citizen tickets and 10 child tickets. What is the price each of one senior citizen ticket and one child ticket?

senior citizen ticket: $10, child ticket: $8

21) New York City is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 8 vans and 3 buses with 154 students. High School B rented and filled 2 vans and 2 buses with 66 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

Van: 11, Bus: 22