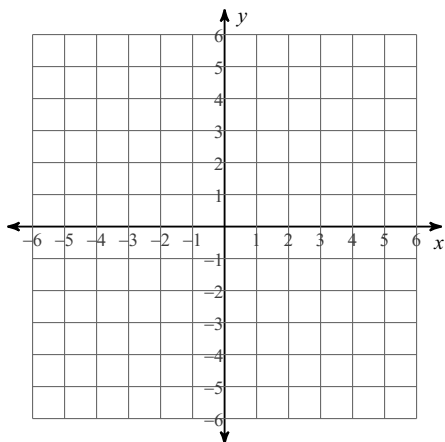


Unit 4 Review

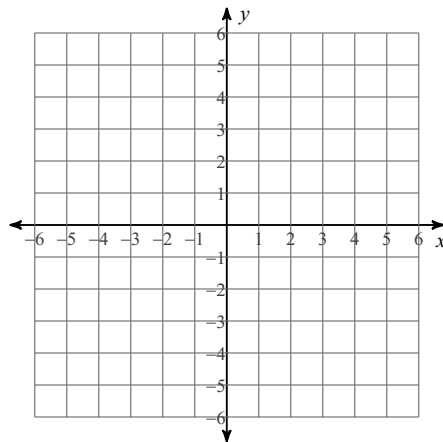
Date _____ Period _____

Sketch the graph of each line.

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



2) $2x - 3y = 9$



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

3) $(3, -2), (3, -10)$

4) $(9, -7), (13, -10)$

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

5) through: $(3, -1)$, slope = $\frac{1}{3}$

6) through: $(2, 1)$, slope = 3

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

7) through: $(-5, 3)$, parallel to $y = -2x$

8) through: $(1, 5)$, perp. to $y = -\frac{1}{2}x - 2$

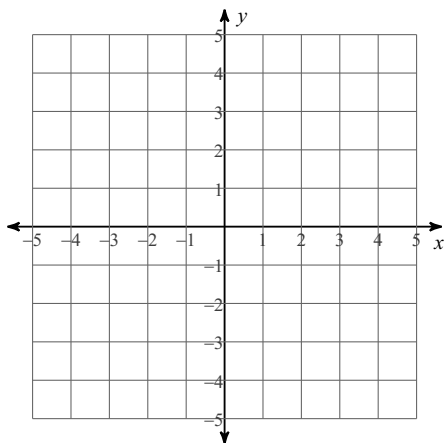
Write the slope-intercept form of the equation of the line through the given points.

9) through: $(-3, 5)$ and $(-4, -2)$

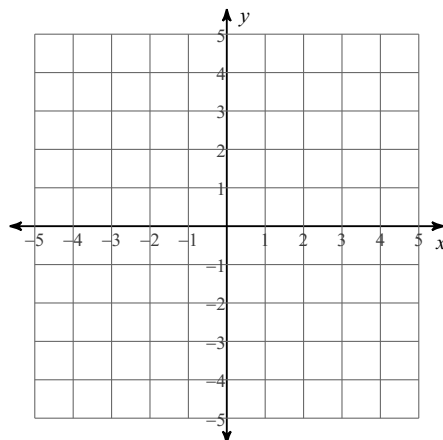
10) through: $(4, 1)$ and $(8, -2)$

Solve each system by graphing.

11) $y = x - 4$
 $y = -2x + 2$



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



Solve each system by substitution.

13) $y = 2x + 13$
 $2x + 3y = 7$

14) $6x - 3y = -18$
 $-4x + y = 16$

Solve each system by elimination.

15) $6x - 2y = 14$
 $-6x - 2y = 2$

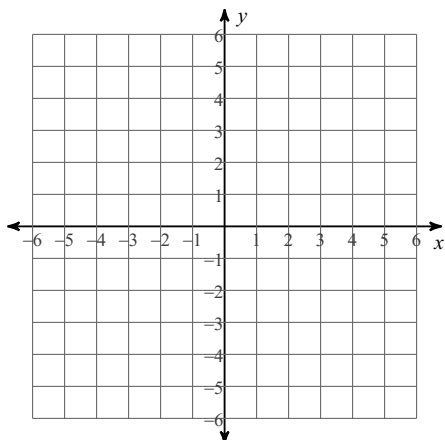
16) $-9x - 4y = 15$
 $3x + 2y = -3$

Write a system of equations that could be used to solve the problem and solve the system of equations to answer the question.

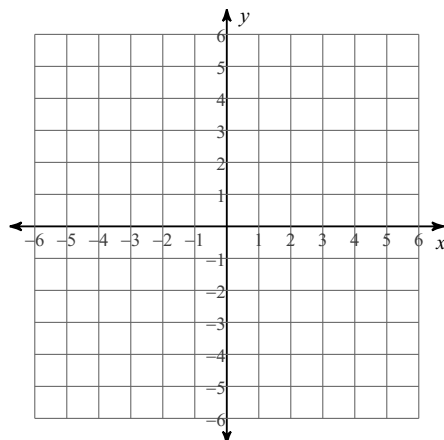
- 17) The school that Darryl goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 7 adult tickets and 9 child tickets for a total of \$171. The school took in \$147 on the second day by selling 7 adult tickets and 7 child tickets. Find the price of an adult ticket and the price of a child ticket.

Sketch the graph of each linear inequality.

18) $y \geq -3x - 3$



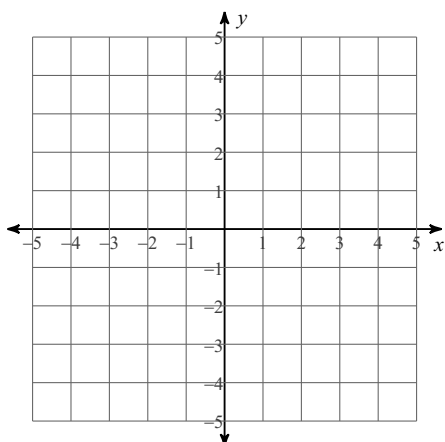
19) $4x - 3y < 12$



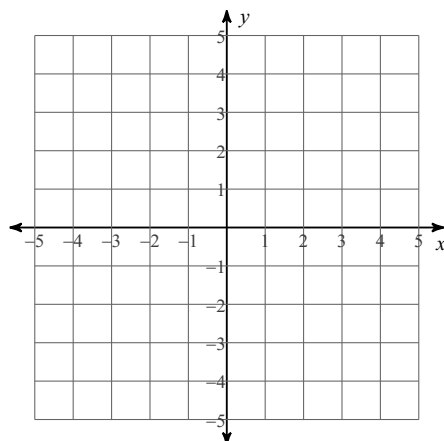
Sketch the solution to each system of inequalities.

20) $y \geq -\frac{4}{3}x - 3$

$y < \frac{2}{3}x + 3$

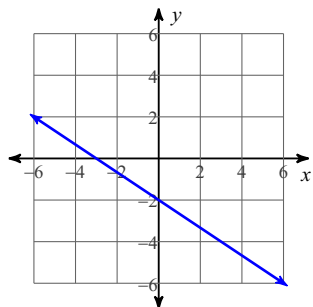


21) $2x - y > -3$
 $4x + y > -3$

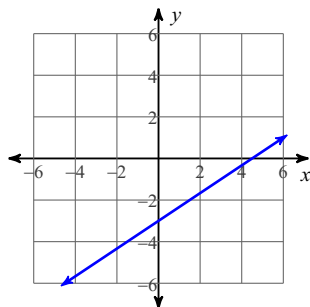


Answers to Unit 4 Review (ID: 1)

1)



2)



3) Undefined

4) $-\frac{3}{4}$

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

6) $y = 3x - 5$

7) $y = -2x - 7$

8) $y = 2x + 3$

9) $y = 7x + 26$

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

11) $(2, -2)$

12) $(4, 1)$

13) $(-4, 5)$

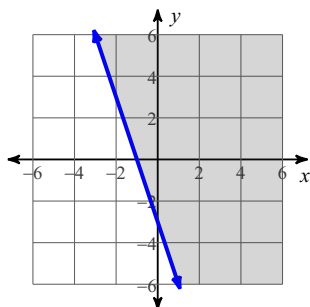
14) $(-5, -4)$

15) $(1, -4)$

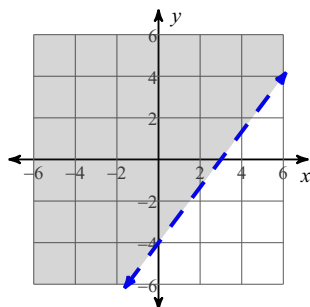
16) $(-3, 3)$

17) adult ticket: \$9, child ticket: \$12

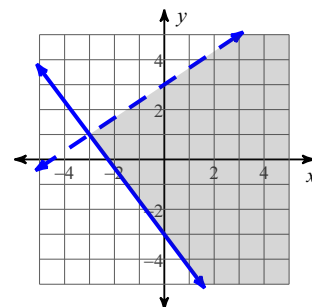
18)



19)



20)



21)

