

_____ 5. Which solution is best found solving the system by substitution over graphing?

a. $(2, -5)$

c. $\left(\frac{6}{11}, -\frac{9}{11}\right)$

b. $(0, 0)$

d. $\left(-10, -\frac{1}{2}\right)$

_____ 6. A corner store sells two kinds of baked goods: cakes and pies. A cake costs \$13 and a pie costs \$10. In one day, the store sold 11 baked goods for a total of \$134. How many cakes did they sell?

a. 5 cakes

c. 11 cakes

b. 8 cakes

d. 3 cakes

What is the solution of the system? Use elimination.

_____ 7. $2x - y = 2$

$2x + y = 2$

a. $(-1, 0)$

b. $(0, 1)$

c. $(0, -1)$

d. $(1, 0)$

What is the solution of the system? Use elimination.

_____ 8. $5x = -30 + 5y$

$20y = 103 + 3x$

a. $(5, 20)$

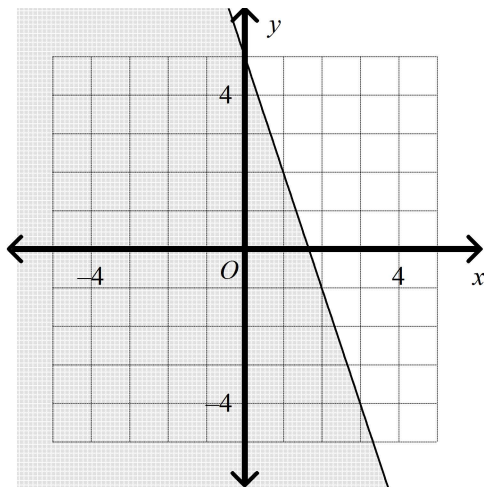
b. $(5, -1)$

c. $(-1, 5)$

d. $(-1, 4)$

Which inequality represents the graph?

_____ 9.



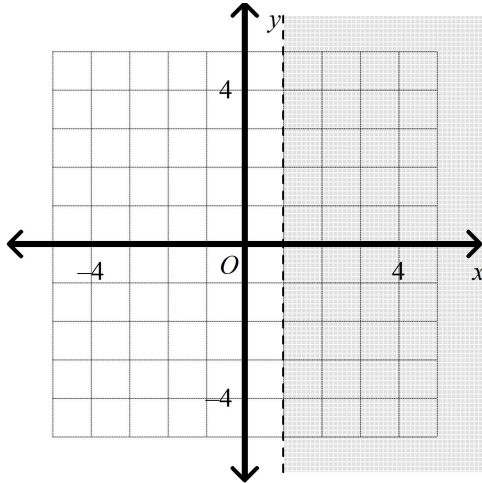
a. $y \leq -3x - 5$

b. $y \geq -3x + 5$

c. $y \geq -3x - 5$

d. $y \leq -3x + 5$

____ 10.



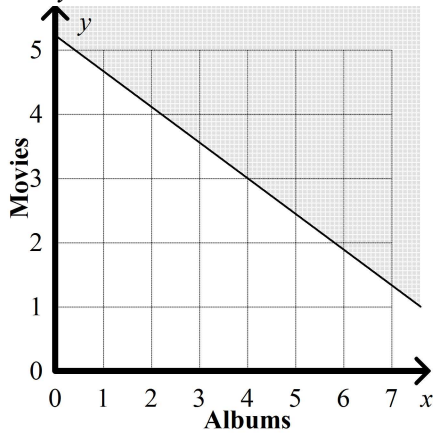
- a. $y > 1$ b. $x \geq 1$ c. $y \geq 1$ d. $x > 1$

Which ordered pair is a solution of the inequality?

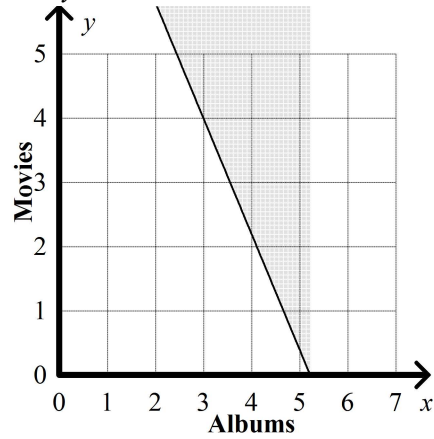
- ____ 11. $2y + 6 < 6x$
a. (5, 15) b. (3, -1) c. (3, 6) d. (0, 5)

12. You have \$47 to spend on music and movie downloads. Each album download costs \$5 and each movie download costs \$9. Write and graph a linear inequality that represents this situation. Let x represent the number of albums and y the number of movies.

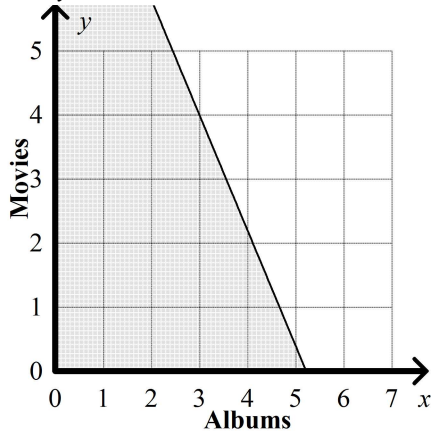
a. $5x + 9y \geq 47$



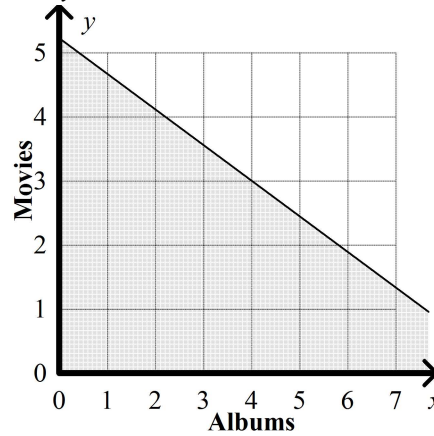
c. $9x + 5y \geq 47$



b. $9x + 5y \leq 47$



d. $5x + 9y \leq 47$



13. Which inequality will use a solid line in its solution graph?

a. $y > -3x - 5$

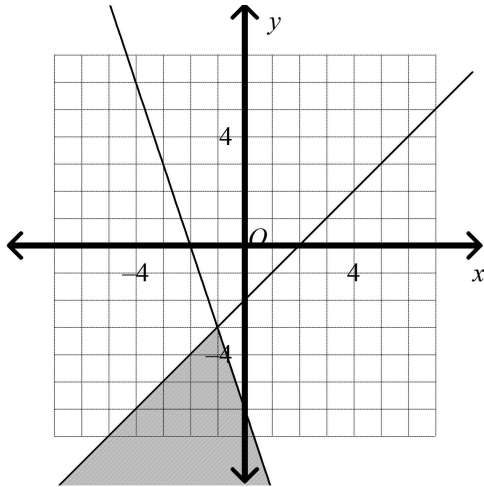
c. $y \leq 4x + 1$

b. $y > x$

d. $y < 2x$

What system of inequalities is represented by the graph?

_____ 14.

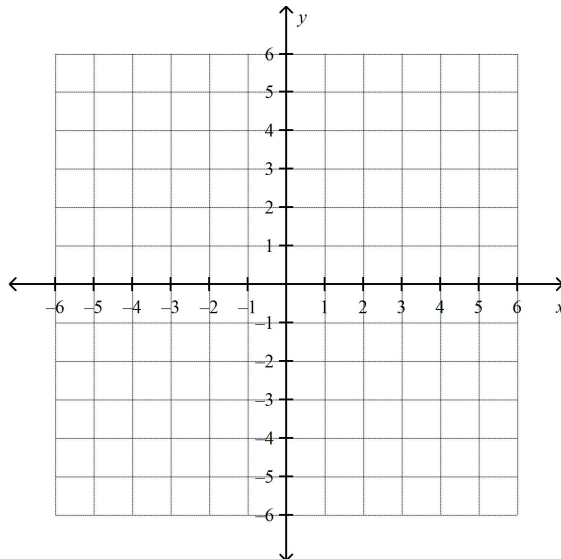


- | | |
|--|--|
| <p>a. $y \geq x - 2$
$y \geq -3x - 6$</p> <p>b. $y \leq x + 3$
$y \geq 2x - 6$</p> | <p>c. $y \leq x - 2$
$y \leq -3x - 6$</p> <p>d. $y \geq x + 3$
$y \leq 2x - 6$</p> |
|--|--|

Short Answer: Show all work for credit. Write your final answer on the line provided.

What is the solution of the system? Use a graph.

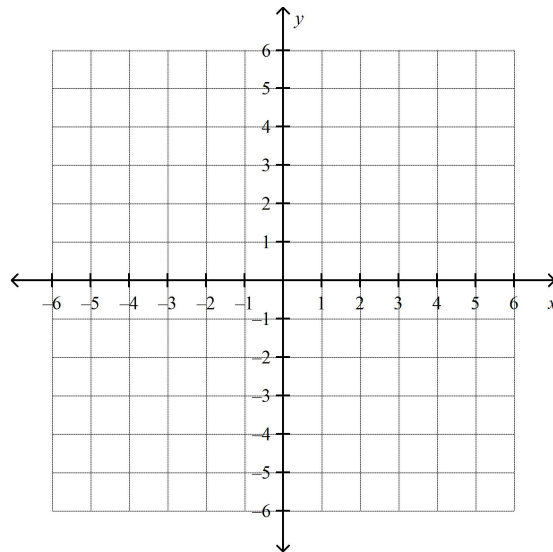
15. $y = 5x + 1$
 $y = x - 3$



Solution: _____

What is the solution of the system? Use a graph.

16. $y = -2x + 3$
 $y = -2x - 3$



Solution: _____

How many solutions does the system have?

17. $y = 4x + 6$
 $4y - 16x = 12$

Number of solutions: _____

What is the solution of the system? Use substitution.

18. $y = 3x + 8$
 $y = 4x$

Solution: _____

Name: _____

ID: Practice Test

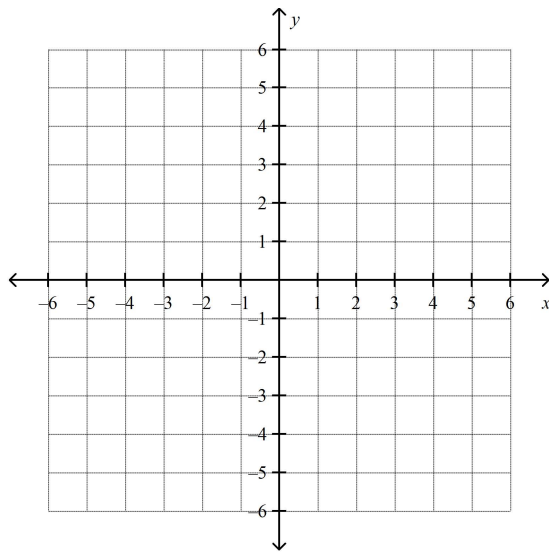
What is the solution of the system? Use elimination.

19. $4x + y = -16$
 $x + 3y = 7$

Solution: _____

Graph the inequality.

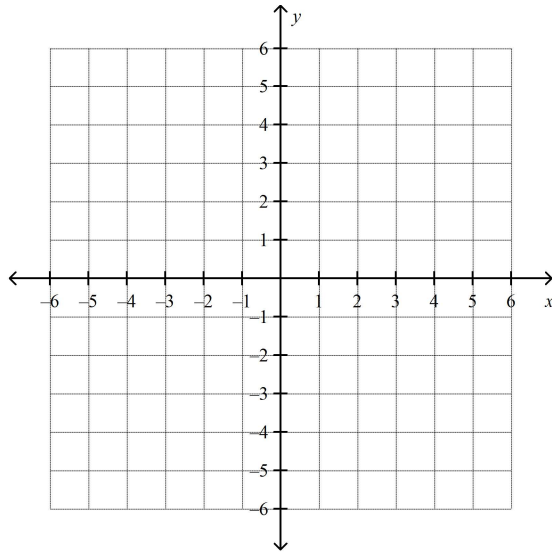
20. $y > -4x + 5$



Name: _____

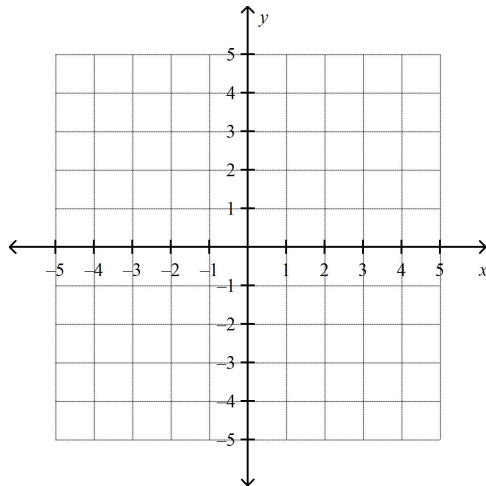
ID: Practice Test

21. $4x + 2y \geq 12$



What is the graph of the inequality in the coordinate plane?

22. $y < 1$

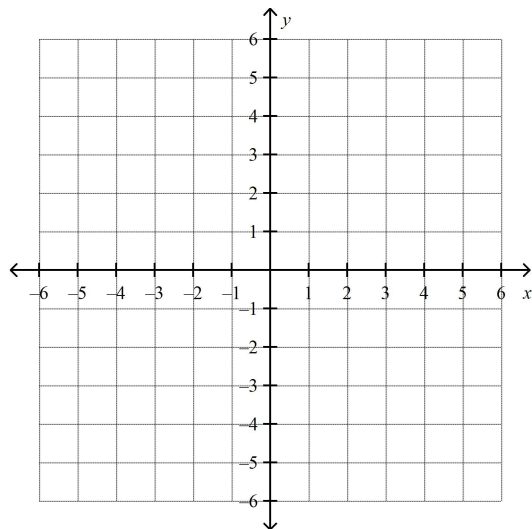


Name: _____

ID: Practice Test

23. What is the graph of the system?

$$y \leq 3x + 1$$
$$x + y \leq -1$$



24. Kendra owns a restaurant. She charges \$3.00 for 2 eggs and one piece of toast, and \$1.80 for one egg and one piece of toast. How much does Kendra charge for an egg? A piece of toast?

Cost for an egg: _____ Cost for a piece of toast: _____

**Unit 4 Test Alg 1
Answer Section****TRUE/FALSE**

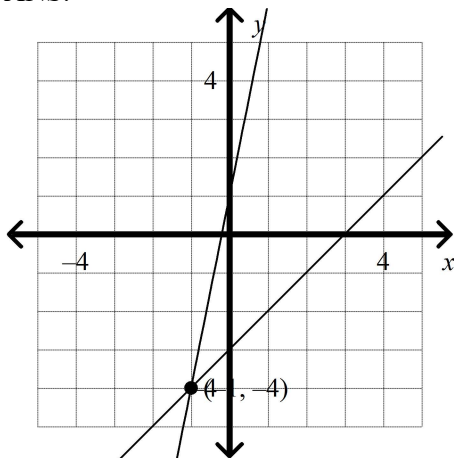
1. ANS: T PTS: 1
TOP: 4-1 Example 2 Graph Systems of Equations With Infinitely Many Solutions or No Solution

MULTIPLE CHOICE

2. ANS: C PTS: 1 TOP: 4-1 Example 3 Write a System of Equations
3. ANS: A PTS: 1
TOP: 4-2 Example 1 Solve Systems of Equations Using Substitution
4. ANS: C PTS: 1
TOP: 4-2 Example 3 Systems With Infinitely Many Solutions or No Solution
5. ANS: C PTS: 1
TOP: 4-2 Example 2 Compare Graphing and Substitution Methods
6. ANS: B PTS: 1 TOP: 4-2 Example 4 Model Using Systems of Equations
7. ANS: D PTS: 1 TOP: 4-3 Example 1 Solve a System of Equations by Adding
8. ANS: C PTS: 1
TOP: 4-3 Example 2 Understand Equivalent Systems of Equations
9. ANS: D PTS: 1 TOP: 4-4 Example 3 Write an Inequality From a Graph
10. ANS: D PTS: 1 TOP: 4-4 Example 3 Write an Inequality From a Graph
11. ANS: B PTS: 1
TOP: 4-4 Example 1 Understand an Inequality in Two Variables
12. ANS: D PTS: 1 TOP: 4-4 Example 2 Rewrite an Inequality to Graph It
13. ANS: C PTS: 1
TOP: 4-4 Example 4 Inequalities in One Variable in the Coordinate Plane
14. ANS: C PTS: 1
TOP: 4-5 Example 2 Write a System of Inequalities from a Graph

SHORT ANSWER

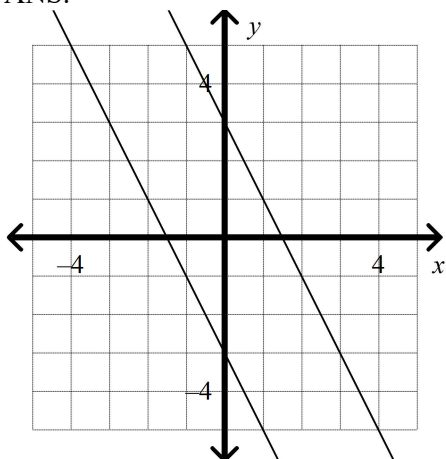
15. ANS:



PTS: 1

TOP: 4-1 Example 1 Solve a System of Equations by Graphing

16. ANS:



no solutions

PTS: 1

TOP: 4-1 Example 2 Graph Systems of Equations With Infinitely Many Solutions or No Solution

17. ANS:

no solution

PTS: 1

TOP: 4-2 Example 3 Systems With Infinitely Many Solutions or No Solution

18. ANS:

(8, 32)

PTS: 1

TOP: 4-2 Example 1 Solve Systems of Equations Using Substitution

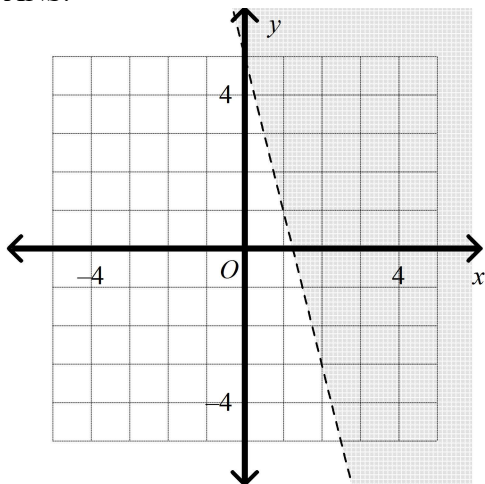
19. ANS:

(-5, 4)

PTS: 1

TOP: 4-3 Example 2 Understand Equivalent Systems of Equations

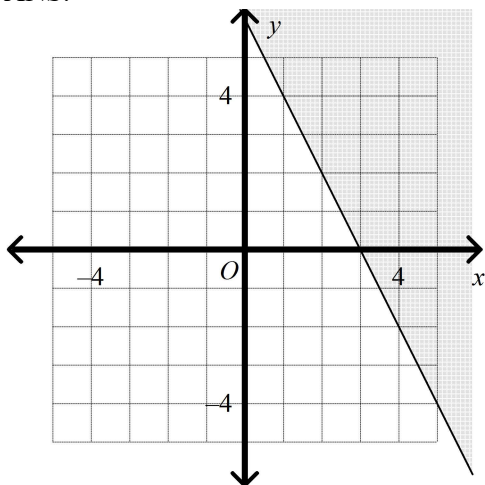
20. ANS:



PTS: 1

TOP: 4-4 Example 1 Understand an Inequality in Two Variables

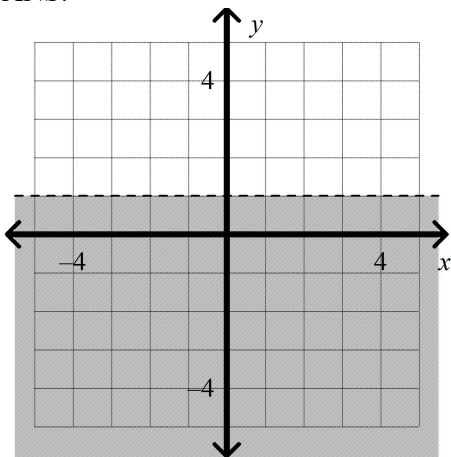
21. ANS:



PTS: 1

TOP: 4-4 Example 2 Rewrite an Inequality to Graph It

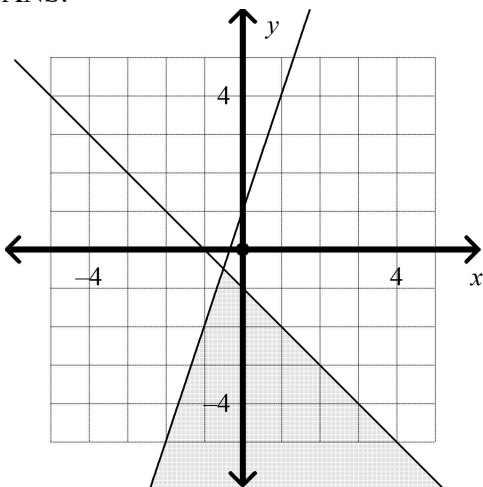
22. ANS:



PTS: 1

TOP: 4-4 Example 4 Inequalities in One Variable in the Coordinate Plane

23. ANS:



PTS: 1

TOP: 4-5 Example 1 Graph a System of Inequalities

24. ANS:

\$1.20 per egg; \$.60 for toast

PTS: 1

TOP: 4-1 Example 3 Write a System of Equations