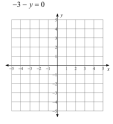


Algebra I Name _____ ID: 5
 Linear Systems Practice Date _____ Period _____

Solve each system by graphing.

1) $y = 2x - 4$
 $-3 - y = 0$



Solve each system by substitution.

2) $y = 3$
 $-3x - 5y = 5$

Solve each system by elimination.

3) $x - 8y = -26$
 $-x + 7y = 23$

4) Rob and Adam are selling fruit for a school fundraiser. Customers can buy small boxes of tangerines and large boxes of tangerines. Rob sold 9 small boxes of tangerines and 12 large boxes of tangerines for a total of \$198. Adam sold 9 small boxes of tangerines and 14 large boxes of tangerines for a total of \$222. Find the cost each of one small box of tangerines and one large box of tangerines.

Jan 25-8:56 AM

January 30, 2019, Wednesday

Would you choose graphing, substitution or elimination? Why?
 $y = -x + 3$ & $5x + y = -1$, $-3x - y = -1$ & $4x + 2y = 3$ Choose one

....quiz

Jan 25-8:56 AM

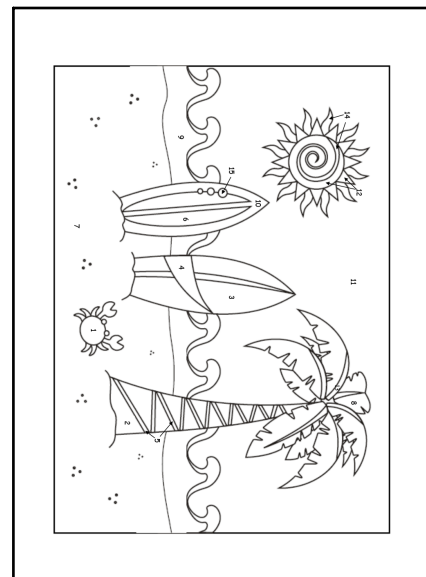
Systems by Substitution - Color-by-Number Name _____

On a separate sheet of paper (or the back of this one), solve each system using substitution. Find your answer in one of the two boxes, and color in your coloring page accordingly!

#	Problem	Answer One	Answer Two
1	$y = 4x$ $y = -2x - 6$	(-1, -4)	(-3, -12)
2	$y = 2x + 4$ $y = 2$	(-1, 2)	(0, 2)
3	$-3x - 3y = -12$ $y = 0$	(0, 4)	(4, 0)
4	$-4x - y = 4$ $y = 2x + 2$	(-1, 0)	(1, 4)
5	$x - y = 5$ $3x + 2y = 12$	(4, -1)	(2, -3)
6	$2x + 3y = 4$ $y = 2$	(-1, 2)	(-2, 2)
7	$y = -2x - 1$ $y = -4x - 5$	(-2, 3)	(-1, -3)
8	$y = -2x + 8$ $y = x - 2$	(-10, -8)	(2, 4)
9	$2x - 3y = 6$ $y = 4x$	(-1, -4)	(-1, -4)
10	$y = x + 3$ $-3x + 2y = 6$	(0, -3)	(0, 3)
11	$-2x + y = -11$ $4x + 4y = 4$	(4, -3)	(-12, -35)
12	$4x + 2y = -12$ $3x + y = -10$	(-4, 2)	(-4, 2)
13	$y = x + 4$ $8x + 3y = -4$	(-1, 3)	(-2, 2)
14	$y = 2x$ $-8x - 2y = 24$	(-2, -4)	(0, 0)
15	$y = 2x + 4$ $6x - 3y = -12$	(NS)	(MS)

*on the color by number page, color in all pieces that are like the one with the number in it!

Jan 25-8:57 AM



Jan 25-8:58 AM

January 31, 2019, Thursday

Highly missed quiz problems

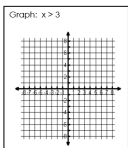
Jan 25-8:59 AM

Graphing Linear Inequalities

- Solve for y! Make sure the equation is in Slope-intercept form.
- Graph using slope and y-intercept.
- Solid or dashed line?
- Shade above or below?

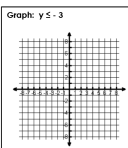
**Vertical Lines will be shaded to the right or left
 ** When the sign in front of the Y is negative, the direction of the inequality changes!

Solid Line



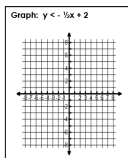
Graph: $x > 3$

Dashed Line



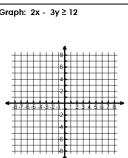
Graph: $y \leq -3$

Shade above



Graph: $y < -\frac{1}{2}x + 2$

Shade below



Graph: $2x - 3y \geq 12$

Jan 25-8:59 AM

GSE Algebra 1 Unit 2 - Solving Equations & Inequalities
 Name: _____ Date: _____

Graphing Linear Inequalities

Sketch the graph of each linear inequality.

1) $y < -2x - 2$ m = _____ b = _____

2) $y \leq -2/3x + 8$ m = _____ b = _____

3) $y < -5x - 5$ m = _____ b = _____

4) $y \geq 1/3x + 1$ m = _____ b = _____

5) $y > -2/5x - 2$ m = _____ b = _____

6) $y \leq x + 3$ m = _____ b = _____

Jan 25-9:00 AM

GSE Algebra 1 Unit 2 - Solving Equations & Inequalities
 Name: _____ Date: _____

Graphing Linear Inequalities

Sketch the graph of each linear inequality.

1) $y < -2x - 2$ m = _____ b = _____

2) $y \leq -2/3x + 8$ m = _____ b = _____

3) $y < -5x - 5$ m = _____ b = _____

4) $y \geq 1/3x + 1$ m = _____ b = _____

5) $y > -2/5x - 2$ m = _____ b = _____

6) $y \leq x + 3$ m = _____ b = _____

Jan 25-9:00 AM

February 1, 2019, Friday

Graph the following
 $Y = 4$
 $Y = 2x + 5$

Jan 25-9:02 AM

Kuta Software - Infinite Algebra 1
 Graphing Linear Inequalities
 Name: _____ Date: _____ Period: _____

Sketch the graph of each linear inequality.

1) $y < -3x + 4$

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

3) $y > -x - 5$

4) $y > -4$

5) $y > 2x - 5$

6) $y > \frac{3}{4}x + 2$

Jan 25-9:02 AM

7) $x < -5$

8) $y \leq \frac{4}{3}x - 4$

9) $3x - 2y < 10$

10) $5x - 3y \leq -15$

11) $y > 4$

12) $x - y > 2$

Jan 25-9:02 AM

GSE Algebra 1 Unit 2 - Solving Equations and Inequalities Review
 Name: _____ Date: _____

Unit 2A - Study Guide

Find the solution of the linear system graphically. Write your solution in the blank provided.

1. $y = -x + 3$

2. $y = -2x + 7$

3. $y = x + 1$

4. $-3x + 6y = 12$

Use substitution to solve the linear system. SHOW ALL WORK.

5. $y = 2x - 2$

6. $4x - y = -6$

7. $6x + 2y = 2$

a) $(-2, -2)$

b) $(2, -2)$

c) $(2/3, 10/3)$

d) $(2, -2)$

Use elimination to solve the linear system. SHOW ALL WORK.

8. $5x - 3y = 7$

9. $-3x + 3y = -9$

10. $6x + 2y = 2$

a) $(1, -2)$

b) $(2, -1)$

c) $(1, 2)$

d) $(2, 3)$

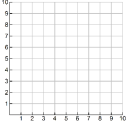
Jan 25-9:04 AM

7. A store sold 32 pairs of jeans for a total of \$1050. Brand A sold for \$30 per pair and Brand B sold for \$35 per pair. How many of Brand A were sold?

a) 12 b) 16 c) 14 d) 18

8. You are selling tickets for a basketball game. Student tickets cost \$3 and general admission tickets cost \$5. You sell 350 tickets and collect \$1450. How many of each type of ticket did you sell?

9. You are looking to buy a bouquet of flowers for your favorite math teacher. Lilies cost \$3.00 each and roses cost \$4.00 each. You have budgeted *no more than* \$28 to spend on flowers. Graph a linear inequality to illustrate how many of each type of flower you can purchase.




10. Solve the equation and write the reason for each step in solving the equation.

Equation	Steps
$2(4x + 30) = 76$	Original Equation

Jan 25-9:04 AM

11. Create and solve the inequality. Then, graph the solution on the given number line.
"5 more than 2 times a number is greater than 21"



Solve the literal equation for the indicated variable

12. $\frac{2}{5}x - y = z$, for x

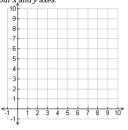
13. $\frac{3x+3}{2} = c$, for a

a) $a = \frac{2c-c}{4}$ b) $a = \frac{4+2c}{3}$ c) $a = \frac{3c-2}{4}$ d) $a = 3b - c$

14. You have \$20 to spend. You need to buy chips and salsa for your friends. Chips cost \$1 per bag and salsa costs \$2 per jar.

a. Write the standard form equation. Let x represent chips and y represent salsa.

b. Rewrite your equation in slope-intercept form and graph. Label your x and y axes.



c. If I buy 6 bags of chips how many jars of salsa can I buy?

Jan 25-9:04 AM

15. Given the equation $2x + 3y = 12$, identify the slope once the equation is put into slope-intercept form.

a) $-\frac{2}{3}$ b) $\frac{1}{2}$ c) $-\frac{3}{2}$ d) 4

16. Which property appropriately justifies the missing step?

Equation	Steps
$3k - 5 = 7$	Original Equation
$3k = 12$?
$k = 4$	Division Property of Equality

17. Write a linear equation to model the situation: A cell phone plan costs \$50 and \$0.50 per minute.

18. What is the solution to the inequality $5x - 15 \geq 2x + 6$?

19. The formula $d = rt$ tells the distance traveled at a given rate and time. Solve the equation for t . A car drove 100 miles at a rate of 20 miles per hour. For how many hours was the car driving?

20. Explain the ways you can determine if a system of equations will have (by graphing and solving algebraically):

a) Infinitely many solutions

b) No solution

Jan 25-9:04 AM