

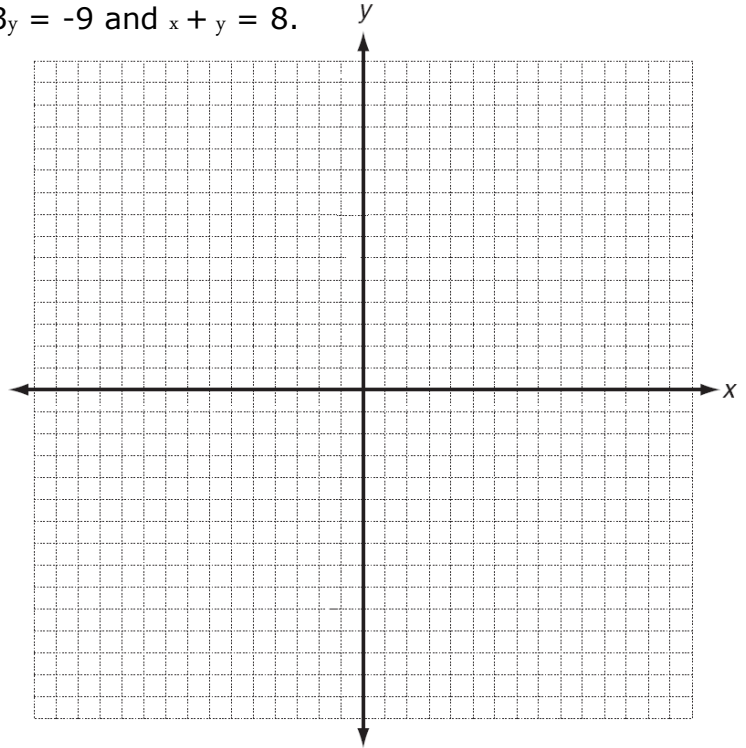
Name: _____ Date: _____ Class Period: _____

8. Given the equations for 2 lines: $2x - 3y = -9$ and $x + y = 8$.

A. (6D) Write both equations in slope-intercept form.

B. (6A) Graph both equations on the coordinate plane to the right.

C. (8B) What is the solution to this system of equations?



Find the solution to the systems by substitution:

9. $2x - 3y = 5$
 $y = -x$

10. $2w - 3 = g$
 $w + g = 21$

11. $x - y = 0$
 $2x + y = 0$

12. The length of a rectangle is twice its width, while the perimeter of the rectangle is 42 units. Write a system of equations that can be used to find the length l and the width w of the rectangle? What is the length and the width of the rectangle?

Find the solution to the systems by elimination:

13. $x - 2y = 6$

14. $4x + 5y = 24$

15. $3x + 2y = 14$

Name: _____ Date: _____ Class Period: _____

$$2x + 5 = 5y$$

$$x + 3y = 12$$

$$3y = 2x - 18$$

16. The Frosty Ice-Cream shop sells only two types of ice cream, sundaes for \$3 and banana splits for \$2. On a hot summer day the shop sold 26 ice creams. That day, the shop made \$56 selling ice cream.

A. (3A) Define the variables in this situation:

B. (8A) Write a system of equations that represents this situation.

C. Find the solution to the system.

Find the solution to the systems by any method:

17. A large cheese pizza at Pepe's Pizzeria costs \$6.80 plus \$0.90 for each topping. The cost of a large cheese pizza at Gino's Pizzeria costs \$7.30 plus \$0.65 for each topping.

A. (3A) Define the variables in this situation

B. (8A) Write the equation for Pepe's Pizzeria

C. (8A) Write the equation for Gino's Pizzeria

D. Solve the System of Equations

18. Raul bought 15 concert tickets worth \$322.50. Floor tickets cost \$25.00 each while balcony tickets cost \$17.50 each. How many tickets of each type did Raul buy? Define your variables, write a system of equations and solve the system.

Name: _____ Date: _____ Class Period: _____

19. (8A) Jasmine purchases bags of white and long-grain rice for her restaurant. She gets 4 more than twice as many bags of white rice as long-grain. She has a total of 24 bags of rice. Write a system of equations can be used to find w , the number of white rice bags and g , the number of long-grain bags. Solve the system of equations.

20. (8A) Mr. Franks bought 7 tickets to a puppet show and spent \$47. He bought a combination of child tickets for \$5 each and adult tickets for \$7 each. Write a system of equations that will determine the number of adult tickets, a , and the number of child tickets, c , he bought. Solve the system of equations.