Geometry A Unit 4 Algebra Review

Systems of Equations

Solve each system by graphing.

- 2. $y = -\frac{1}{2}x + 5$ $y = -\frac{3}{4}x + 2$ 1. y=3-x y=-1+x
- 3. x+2y=104. x-2y=6 2x-3y=53x+4y=8

Solve each system using substitution.

- x=3y-4 5. x+y=46. 2x-y=7y=2x+1
- y-2x=-67. x-y=-38. 2x+3y=-62y-x=7

Solve each system using elimination

- 9. -x-y=8 10. x+3y=192x-y=-1x-y=-1
- 11. x-3y=02x+3y=-112. 5x-y=-143x + 5y = -2

Solve each system using any of the methods.

- 13. 14. y=2x-5x=y 4x=2y-63y-x=5
- x-3y=7 15. 16. 3x-8y=11-3x+7y=17x+6y-8=0

Solve each using a system of equations.

- 17. Two angles are complementary. Their difference is 34. Find the angles.
- 18. The measures of two acute angles of a right triangle differ by 18 degrees. What are their measures?
- 19. The sum of two numbers is 27. One number is 3 more than the other. Find the numbers.
- 20. Find two numbers whose sum is 66 and whose difference is 8.
- 21. Marco has 150 coins, all nickels and dimes. He has 12 more dimes than nickels. How many nickels and how many dimes does he have?
- 22. Four oranges and five apples cost \$2.00. Three oranges and four apples cost \$1.56. Find the cost of an orange and the cost of an apple.
- 23. The Booster club made their annual trip to a baseball game. They bought 29 tickets. Some of the tickets cost \$7 each and some cost \$9 each. All of the tickets together cost \$225. How many tickets of each price did they buy?
- 24. During a publicity campaign, a cycle shop gave away 5000 miniature cycles and bumper stickers. The cycles cost 21 cents each and the bumper stickers cost 14 cents each. The cycle shop spent \$826 on the gifts. How many of each gift did they buy?