Name: _____ Date: _____ Period: _____
Eliminating Using Addition
7.3 Practice

Use elimination to solve each system of equations.

1. $x + y = -4$
$x - y = 2$

2. $2m - 3n = 14$
$m + 3n = -11$

3. $3a - b = -9$
$-3a - 2b = 0$

4. $-3x - 4y = -1$
$3x - y = -4$

5. $3c + d = 4$
$2c - d = 6$

6. $-2x + 2y = 9$
$2x - y = -6$

7. $2x + 2y = -2$
$3x - 2y = 12$

8. $4x - 2y = -1$
$-4x + 4y = -2$

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

10. $2x - 3y = 12$
$4x + 3y = 24$

11. $-0.2x + y = 0.5$
$0.2x + 2y = 1.6$

12. $0.1x + 0.3y = 0.9$
$0.1x - 0.3y = 0.2$

13. Rema is older than Ken. The difference of their ages in 12 and the sum of their ages is 50. Find the age of each.

14. The sum of the digits of a two-digit number is 12. The difference of the digits is 2. Find the number if the units digit is larger than the tens digit.

Elimination Using Subtraction
Worksheet 416

1. $6x + 5y = 4$
$6x - 7y = -20$

2. $3m - 4n = -14$
$3m + 2n = -2$

3. $3a + b = 1$
$a + b = 3$

4. $-3x - 4y = -23$
$-3x + y = 2$

5. $c - 3d = 11$
$2c - 3d = 16$

6. $x - 2y = 6$
$x + y = 3$

7. $2a - 3b = -13$
$2a + 2b = 7$

8. $4x + 2y = 6$
$4x + 4y = 10$

9. $5s - t = 6$
$5s + 2t = 3$

10. $6x - 3y = 12$
$4x - 3y = 24$

11. $x + 2y = 3.5$
$x - 3y = -9$

12. $0.2x + y = 0.7$
$0.2x + 2y = 1.2$

13. The sum of two numbers is 70. One number is ten more than twice the other number. Find the numbers.

14. GEOMETRY Two angles are supplementary. The measure of one angle is 10° more than three times the other. Find the measure of each angle.