Name _____ Class _____ Date _____

Practice 7-3

Solving Systems Using Elimination

Solve by elimination. Show your work.

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

2. $3x + y = 20$
   $x + y = 12$

3. $5x + 7y = 77$
   $5x + 3y = 53$

4. $2x + 5y = -1$
   $x + 2y = 0$

5. $3x + 6y = 6$
   $2x - 3y = 4$

6. $2x + y = 3$
   $-2x + y = 1$

7. $9x - 3y = 24$
   $7x - 3y = 20$

8. $2x + 7y = 5$
   $2x + 3y = 9$

9. $x + y = 30$
   $x - y = 6$

10. $4x - y = 6$
    $3x + 2y = 21$

11. $x + 2y = 9$
    $3x + 2y = 7$

12. $3x + 5y = 10$
    $x - 5y = -10$

13. $2x - 3y = -11$
    $3x + 2y = 29$

14. $8x - 9y = 19$
    $4x + y = -7$

15. $2x + 6y = 0$
    $-2x - 5y = 0$

16. $-2x + 3y = -9$
    $x + 3y = 3$

17. $4x - 3y = 11$
    $3x - 5y = -11$

18. $3x + 7y = 48$
    $5x - 7y = -32$

19. $-2x + 3y = 25$
    $-2x + 6y = 58$

20. $3x + 8y = 81$
    $5x - 6y = -39$

21. $8x + 13y = 179$
    $2x - 13y = -69$

22. $-x + 8y = -32$
    $3x - y = 27$

23. $2x + 7y = -7$
    $5x + 7y = 14$

24. $x + 6y = 48$
    $-x + y = 8$

25. $6x + 3y = 0$
    $-3x + 3y = 9$

26. $7x + 3y = 25$
    $-2x - y = -8$

27. $3x - 8y = 32$
    $-x + 8y = -16$

28. $4x - 7y = -15$
    $-4x - 3y = -15$

29. $5x + 7y = -1$
    $4x - 2y = 22$

30. $6x - 3y = 69$
    $7x - 3y = 76$

31. $x + 8y = 28$
    $-3x + 5y = 3$

32. $8x - 6y = -122$
    $-4x + 6y = 94$

33. $2x + 9y = 36$
    $2x - y = 16$

34. $-6x + 12y = 120$
    $5x - 6y = -48$

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

36. $10x - 4y = 6$
    $10x + 3y = 13$

37. $6x + 3y = 27$
    $-4x + 7y = 27$

38. $6x - 8y = 40$
    $5x + 8y = 48$

39. $3x + y = 27$
    $-3x + 4y = -42$

40. $2x + 8y = -42$
    $-x + 8y = -63$

41. $5x + 9y = 112$
    $3x - 2y = 8$

42. $-3x + 2y = 0$
    $-3x + 5y = 9$

43. $8x - 2y = 58$
    $6x - 2y = 40$

44. $7x - 9y = -57$
    $-7x + 10y = 68$

45. $9x + 3y = 2$
    $-9x - y = 0$

46. Shopping at Savers Mart, Lisa buys her children four shirts and three pairs of pants for $85.50. She returns the next day and buys three shirts and five pairs of pants for $115.00. What is the price of each shirt and each pair of pants?

47. Grandma's Bakery sells single-crust apple pies for $6.99 and double-crust cherry pies for $10.99. The total number of pies sold on a busy Friday was 36. If the amount collected for all the pies that day was $331.64, how many of each type were sold?