

**Practice 6-3****Mixed Exercises****Solve each system using elimination. Check your solution.**

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.  $9x + 8y = 50$   
 $-3x + 5y = 14$

47.  $2x - 7y = 9$   
 $8x + 5y = 69$

48.  $9x + 7y = 157$   
 $12x + 7y = 193$

49.  $3x + 5y = 18$   
 $12x - 3y = 3$

50.  $2x + 6y = 54$   
 $2x - 6y = -18$

51.  $3x - 9y = -51$   
 $3x - 7y = -37$