**6-3 Skills Practice**

***Elimination Using Addition and Subtraction***

**Use elimination to solve each system of equations.**

**1.** *x* – *y* = 1 **2.** –*x* + *y* = 1

*x* + *y* = 3 *x* + *y* = 11

**3.** *x* + 4*y* = 11 **4.** –*x* + 3*y* = 6

*x* – 6*y* = 11 *x* + 3*y* = 18

**5.** 3*x* + 4*y* = 19 **6.** *x* + 4*y* = –8

3*x* + 6*y* = 33 *x* – 4*y* = –8

**7.** 3*x* + 4*y* = 2 **8.** 3*x* – *y* = –1

4*x* – 4*y* = 12 –3*x* – *y* = 5

**9.** 2*x* – 3*y* = 9 **10.** *x* – *y* = 4

–5*x* – 3*y* = 30 2*x* + *y* = –4

**11.** 3*x* – *y* = 26 **12.** 5*x* – *y* = –6

–2*x* – *y* = –24 –*x* + *y* = 2

**13.** 6*x* – 2*y* = 32 **14.** 3*x* + 2*y* = –19

4*x* – 2*y* = 18 –3*x* – 5*y* = 25

**15.** 7*x* + 4*y* = 2 **16.** 2*x* – 5*y* = –28

7*x* + 2*y* = 8 4*x* + 5*y* = 4

**17.** The sum of two numbers is 28 and their difference is 4. What are the numbers?

**18.** Find the two numbers whose sum is 29 and whose difference is 15.

**19.** The sum of two numbers is 24 and their difference is 2. What are the numbers?

**20.** Find the two numbers whose sum is 54 and whose difference is 4.

**21.** Two times a number added to another number is 25. Three times the first number minus the other number is 20. Find the numbers.