

6-3 Skills Practice***Elimination Using Addition and Subtraction***

Use elimination to solve each system of equations.

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

2. $-x + y = 1$
 $x + y = 11$

3. $x + 4y = 11$
 $x - 6y = 11$

4. $-x + 3y = 6$
 $x + 3y = 18$

5. $3x + 4y = 19$
 $3x + 6y = 33$

6. $x + 4y = -8$
 $x - 4y = -8$

7. $3x + 4y = 2$
 $4x - 4y = 12$

8. $3x - y = -1$
 $-3x - y = 5$

9. $2x - 3y = 9$
 $-5x - 3y = 30$

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

11. $3x - y = 26$
 $-2x - y = -24$

12. $5x - y = -6$
 $-x + y = 2$

13. $6x - 2y = 32$
 $4x - 2y = 18$

14. $3x + 2y = -19$
 $-3x - 5y = 25$

15. $7x + 4y = 2$
 $7x + 2y = 8$

16. $2x - 5y = -28$
 $4x + 5y = 4$

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.