

6-2 Skills Practice

Substitution

Use substitution to solve each system of equations.

1. $y = 4x$
 $x + y = 5$

2. $y = 2x$
 $x + 3y = -14$

3. $y = 3x$
 $2x + y = 15$

4. $x = -4y$
 $3x + 2y = 20$

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

6. $x = y - 7$
 $x + 8y = 2$

7. $y = 4x - 1$
 $y = 2x - 5$

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

9. $2x - 3y = 21$
 $y = 3 - x$

10. $y = 5x - 8$
 $4x + 3y = 33$

11. $x + 2y = 13$
 $3x - 5y = 6$

12. $x + 5y = 4$
 $3x + 15y = -1$

13. $3x - y = 4$
 $2x - 3y = -9$

14. $x + 4y = 8$
 $2x - 5y = 29$

15. $x - 5y = 10$
 $2x - 10y = 20$

16. $5x - 2y = 14$
 $2x - y = 5$

17. $2x + 5y = 38$
 $x - 3y = -3$

18. $x - 4y = 27$
 $3x + y = -23$

19. $2x + 2y = 7$
 $x - 2y = -1$

20. $2.5x + y = -2$
 $3x + 2y = 0$