

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