

Part A

Tell whether the ordered pair is a solution of the system of linear equations.

1. $(-1, 6)$; $6x + 3y = 18$
 $2x + y = 7$

2. $(12, 0)$; $2x + 6y = 24$
 $\frac{1}{2}x + 3y = 6$

3. $(5, -8)$; $9x + 7y = -11$
 $-2x - 5y = 30$

Part B

In Exercises 4–9, solve the system of linear equations by substitution. Check your solution.

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

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

6. $y = 11 + 4x$
 $3x + 2y = 0$

Part C

In Exercises 1–6, solve the system of linear equations by elimination. Check your solution.

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

2. $4x - y = 5$
 $3x + y = 9$

3. $2x - 5y = -7$
 $-2x + 3y = 1$

Part D

Solve the system of linear equations.

10. $5x + 4y = 16$
 $-2x - 4y = -4$

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

12. $-5x + y = -3$
 $40x - 8y = 24$