

Exercises

Determine the best method to solve each system of equations. Then solve the system.

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|---|--|---|
| 1. $x + 2y = 3$
$x + y = 1$
elimination (-); (-1, 2) | 2. $m + 6n = -8$
$m = 2n + 8$
substitution; (4, -2) | 3. $a - b = 6$
$a = 2b + 7$
substitution; (5, -1) |
| 4. $4x + y = 15$
$-x - 3y = -12$
substitution; (3, 3) | 5. $3c - d = 14$
$c - d = 2$
elimination (-); (6, 4) | 6. $x + 2y = -9$
$y = 4x$
substitution; (-1, -4) |
| 7. $4x = 2y - 10$
$x + 2y = 5$
substitution; (-1, 3) | 8. $x = -2y$
$4x + 4y = -10$
substitution; $(-5, \frac{5}{2})$ | 9. $2s - 3t = 42$
$3s + 2t = 24$
elimination (×); (12, -6) |
| 10. $4a - 4b = -10$
$2a + 4b = -2$
elimination (+); $(-2, \frac{1}{2})$ | 11. $4x + 10y = -6$
$-2x - 10y = 2$
elimination (+); $(-2, \frac{1}{5})$ | 12. $2x = y - 3$
$-x + y = 0$
substitution; (-3, -3) |