3-2 Skills Practice

Solving Systems of Equations Algebraically

Solve each system of equations by using substitution.

1. $a + b = 20$
$a - b = -4$

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

3. $w - z = 1$
$2w + 3z = 12$

4. $3r + t = 5$
$2r - t = 5$

5. $2b + 3c = -4$
$b + c = 3$

6. $x - y = -5$
$3x + 4y = 13$

Solve each system of equations by using elimination.

7. $2t - u = 17$
$3t + u = 8$

8. $2j - k = 3$
$3j + k = 2$

9. $3c - 2d = 2$
$3c + 4d = 50$

10. $2f + 3g = 9$
$f - g = 2$

11. $-2x + y = -1$
$x + 2y = 3$

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

Solve each system of equations.

13. $-r + t = 5$
$-2r + t = 4$

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

15. $x - 3y = -12$
$2x + y = 11$

16. $2p - 3r = 6$
$-2p + 3r = -6$

17. $6w - 8z = 16$
$3w - 4z = 8$

18. $c + d = 6$
$c - d = 0$

19. $2u + 4x = -6$
$u + 2x = 3$

20. $3a + b = -1$
$-3a + b = 5$

21. $2x + y = 6$
$3x - 2y = 16$

22. $3y - z = -6$
$-3y - z = 6$

23. $c + 2d = -2$
$-2c - 5d = 3$

24. $3r - 2t = 1$
$2r - 3t = 9$

Scanned by CamScanner