

Practice

Adding and Subtracting Polynomials*Find each sum or difference.*

$$\begin{array}{r} 1. \quad a^2 + ab - 3b^2 \\ (+) \quad 4a^2 - ab + b^2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 6bz^2 + 3b^2z - 8b^3 \\ (+) \quad 3bz^2 - 7b^2z - 3b^3 + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 2x + 6y - 3z + 5 \\ \quad 4x - 8y + 6z - 1 \\ (+) \quad x - 3y \quad \quad + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 7m^2 - 3m + 3 \\ \quad 3m^2 + 5m - 5 \\ (+) \quad -11m^2 - 6m + \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7a^2 - a + 4 \\ (-) \quad 3a^2 - 4a - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5c^2d^2 \quad \quad - 9 \\ (-) \quad 2c^2d^2 + 3cd - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 5e^2 - e - 7 \\ (-) \quad -2e^2 + 3e + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad x^2 + xy - 3y^2 \\ (-) \quad 4x^2 - xy + y^2 \\ \hline \end{array}$$

$$9. (2x + 3y) + (4x + 9y)$$

$$10. (5a + 9b) - (2a + 4b)$$

$$11. (11m - 7n) - (2m + 6n)$$

$$12. (6s + 5t) + (4t + 8s)$$

$$13. (5x^2 - x - 7) + (2x^2 + 3x + 4)$$

$$14. (7x^2 + x + 1) - (3x^2 - 4x - 3)$$

$$15. (5x + 3z) + 9x$$

$$16. (15c + 8d) - 13d$$

$$17. (x^2 - 3x) - (2x^2 + 5x)$$

$$18. 6p - (8q + 5p)$$

$$19. (2e^2 - 5e) + (7e - 3e^2)$$

$$20. (m^2 - m) + (2m + m^2)$$

$$21. (d^2 - d + 5) - (2d + 5)$$

$$22. (\ell^2 - 5\ell - 6) + (2\ell^2 + \ell + 5)$$