

Operations with Polynomials

Operations with Polynomials: Adding, Subtracting, Multiplying, & Dividing – Accuracy

Simplify each of the following by performing the specified operation:

1. $(2x - 5x^2 + 3x^3) + (-6x - 3x^4 + 2)$	2. $(2n^2 + 5n^3 - 3n^4) - (3n - 2n^4 + 13n^3)$
3. $(-5k^3 + 4k - 6) + (k^4 + 8 - 8k)$	4. $(-5x - 2x^3 + 7x^2) - (2x^4 + 2x^2 - 9x)$
5. $(1 + 7a^4 - 3a^2) + (9 + 2a^4 + 5a^2)$	6. $(-2 + 7v^4 + 6v^3) - (-v^4 + 2v + 3v^3)$
7. $(2 + 8r^2 - 3r) + (-6r + 2 + 12r^2)$	8. $(5 - 3r^3 + 2r) - (-r^4 + 4r - 2r^3)$
9. $(9b^3 - 2b - 5b^4) + (2b^4 - 20 + 3b)$	10. $(16 + 15x^4 - x^2) - (2x^2 - 3x^3 + 1)$

11. $(2z + 1)(-2z + 3)(-z - 2)$	12. $(4r^3 - 8r^2 - 13r + 20) \div (2r - 5)$
13. $(-2x + 5)(2x - 3)(x + 8)$	14. $(3x^3 - 16x^2 + 9x - 24) \div (x - 5)$
15. $(3x - 2)(4x^2 - 3x + 2)$	16. $(b^3 + 4b^2 - 15b - 18) \div (x - 3)$
17. $(-2x^2 - 5x + 3)(2x^2 - 5x^3 + 10)$	18. $(x^3 - 7x^2 + 4x + 12) \div (x - 2)$
19. $(-5y^2 - 2y + 3)(6y^2 + 10y + 3)$	20. $(c^5 + 8c^3 + 2c - 15) \div (c + 5)$