

Pre-4 Worksheet (2 pages)

Add or Subtract the following polynomials (Write in Standard Form in descending order).

1. $(7j^3 - 2) + (5j^3 - 6j^2 - j - 3)$

2. $(-x^2 + x - 4) - (3x^2 - 8x + 2)$

3. $(6m^5 + 1) + (2m^5 + 9m - 3)$

4. $(5x^3 + 3x^2 + 5) - (7x^3 - 9x^2 + 8x - 5)$

5. $(5x^3 + 5x^2 + 5) - (6x^3 - 6x^2 + 8x - 5)$

6. $(-x + 4x^3 + 7) + (3x^3 - 9 - 3x)$

Simplify the following by performing the indicated operations with polynomials.

7. $(8x^3y^2)(-3x^2y^3)$

8. $(4x - 3)(3x - 5)$

9. $(-9x^3y)(-8x^2y^5)$

10. $(x - 8)(x - 7)$

11. $2x^3(9x^2 + 5)$

12. $(2x + 4y)(2x + 5y)$

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

14. $(3x + 5)^2$

15. $(4x^3y^6)^2 \cdot 5x^4y^7$

16. $\frac{45x^5y^7z^2}{9x^4yz^2}$

17. $(x + 8)(x^2 - 7x + 3)$

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