

Algebra II CW 6.1-6.3 Polynomials

Classify by degree and type of polynomial

1. $3x^2 + 2y$

2. $3x^4y^3 + 2y^5 - 1$

Add, subtract, or multiply the given polynomials:

3. $(3x^2 + 2x - 5) + (-5x^2 + 6x + 12)$

4. $(-5x^2 + 2x + 2) - (-5x^2 + 6x^3 + 10)$

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

6. Write #5 in descending order.

7. Expand: $(2x - 2y)^4$

8. What is the coefficient of the 5th term of: $(2x + 3y)^9$

9. What is the 6th term of: $(x + 2y)^{11}$

10. $\frac{x^5 - 2x^3 + 8x - 18}{x^3 + 2x}$