

## Adding and Subtracting Polynomials - Key

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In problems 1-2, determine the coefficient and degree of each monomial

1. coeff=8,degree=3	2. coeff=-1,degree=5
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In problem 3, state why each of the following is not a polynomial

3. negative exponents	
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In problems 4-7, determine whether the algebraic expression is a polynomial. If it is a polynomial, write the polynomial in standard form, determine the degree, and state whether it is a monomial, binomial, trinomial or just a polynomial (for 4 or more terms).

4. yes $7x^3 - 3x + 2$ 3 trinomial	5. no
6. yes $3x^2 + 4x$ 2 binomial	7. yes $x^5 + 2x^4 - x + 4$ 5 polynomial

In problems 8-13, simplify each polynomial by adding or subtracting.

8 $5x^3$	9. $3x^3 + 3x^2 + 2x + 8$
10. $13x^2 - 10x + 10$	11. $-2x^2 + 3x + 16xy - 3$
12. $\frac{-1}{3}x^2 - \frac{1}{10}x$	13. $10x^4 - x^3 - x^2 - 6x + 1$