

## Polynomials

7-4

- an expression of 1 or more algebraic terms

• binomial - sum of 2 terms ex.  $2x+7$

• trinomial - sum of 3 terms ex.  $2x^2+5x-1$

## Standard form of a polynomial

- terms in order greatest to least degree

example  $4x^3 + 2x^2 - x + 8$   
greatest degree

## Adding Polynomials

7-5

- add like terms

example:  $(5x^2 - 3x + 4) + (6x - 3x^2 - 3)$

$$5x^2 - 3x^2 - 3x + 6x + 4 - 3$$

$$2x^2 \quad + 3x \quad + 1$$

$$2x^2 + 3x + 1$$

## Subtracting Polynomials

- must subtract each term in the polynomial being subtracted

example:  $(8y - 10 + 5y^2) - (7 - y^2 + 12y)$

$$5y^2 - (-y^2) + 8y - 12y - 10 - 7$$

$$6y^2 \quad - 4y \quad - 17$$

$$6y^2 - 4y - 17$$