

POLYNOMIALS

$$3x^2 - 7x + 4$$

Polynomial

$$3x^2 - 7x + 4$$

Variable

$$3x^2 - 7x + 4$$

$$3x^3 - 7x + 4$$

$$3x^n - 7x + 4$$

Degree 2, Degree
3, Degree n

$$3x^2 - 7x + 4$$

$$3x^3 - 7x + 4$$

$$3x^n - 7x + 4$$

Quadratic polynomial,
Cubic Polynomial,
Polynomial of degree n

$$3x^2 - 7x + 4$$

Coefficients

$$3x^2 - 7x + 4$$

Leading coefficient,
Constant term

$$3x^2 - 7x + 4$$

$$x^2 - 7x + 4$$

Leading term,
Monic polynomial

$$x^2 - 9 = 0$$

$$3 \quad - 3$$

Polynomial equation,
Roots (solutions)

$$(a + b)^2 = a^2 + 2ab + b^2$$

Square of a binomial
(perfect square trinomial)

$$(a + b)^n$$

Power of a binomial

$$a^2 - b^2 = (a + b)(a - b)$$

Difference of
two squares

$$3x^2 + 6x + 9 = 3(x + 1)^2 + 6$$

Completing
the square

ALGEBRA