



1. Algebraic Equations

1. $ax + b = 0$. *Linear (algebraic) equation.*
2. $ax^2 + bx + c = 0$. *Quadratic equation.*
3. $ax^3 + bx^2 + cx + d = 0$. *Cubic equation.*
4. $ax^4 + bx^2 + c = 0$. *Biquadratic equation.*
5. $ax^4 + bx^3 + cx^2 + bx + a = 0$. *Reciprocal (algebraic) equation.*
6. $ax^4 + bx^3 + cx^2 - bx + a = 0$. *Modified reciprocal equation.*
7. $ab^2x^4 + bx^3 + cx^2 + dx + ad^2 = 0$. *Generalized reciprocal equation.*
8. $ax^4 + bx^3 + cx^2 + dx + e = 0$. *Quartic equation of general form.*
9. $x^n - a = 0$. *Binomial algebraic equation.*
10. $ax^{2n} + bx^n + c = 0$.
11. $a_0x^{2n} + a_1x^{2n-1} + a_2x^{2n-2} + \dots + a_{2n-1}x + a_0 = 0$. *Reciprocal (algebraic) equation.*
12. $a_nx^n + a_{n-1}x^{n-1} + \dots + a_1x + a_0 = 0$. *Algebraic equation of general form of degree n .*

The EqWorld website presents extensive information on solutions to various classes of ordinary differential equations, partial differential equations, integral equations, functional equations, and other mathematical equations.