

2.3 Other Types of Equations

Polynomial Equations

- Degree > than 2
- Use factoring method.

Examples: 1. $5x^4 - 20x^2 = 0$

2. $9y^3 + 8 = 4y + 18y^2$

Equations containing Radicals

Radical equation

- An equation in which the variable occurs in a square root, cube root, or any higher root.
- Check for extraneous solution.

Examples: 1. $\sqrt{20 - 8x} = x$

2. $\sqrt{x + 5} - \sqrt{x - 3} = 2$

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Equation involving a Rational Exponent

Examples: 1. $x^{2/3} = 27$

2. $8x^{5/3} - 24 = 0$