

## Solve Cubic Equations

Find the roots of  $f(x) = 2x^3 - 5x^2 - 23x - 10 = 0$ , given that it has at least one rational root.

1. Find the possible values of the rational root.

$$\text{Possible roots} = \pm \frac{\text{Factors of constant}}{\text{Factors of leading coefficient}} = \pm \frac{\text{Factors of 10}}{\text{Factors of 2}}$$

2. Test the possible roots by substituting into the polynomial. Start with the easier numbers.

$$f(1) = -36, f(-1) = 6, f(2) = -60, f(-2) = 0$$

$(x + 2)$  is a factor because  $f(-2) = 0$

3. Find the other roots by synthetic division, by factoring or by quadratic formula.

$$2x^3 - 5x^2 - 23x - 10 = 0$$

$$(x + 2)(2x^2 - 9x - 5) = 0$$

$$(x + 2)(2x + 1)(x - 5) = 0$$

$$\therefore x = -2 \text{ or } x = -\frac{1}{2} \text{ or } x = 5$$

# Infinite Algebra 2 Solving Cubic Equations

**Paul Allen Towne**

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**Prentice Hall Algebra 2 with Trigonometry** Bettye C. Hall,1990

A History of the Arithmetical Methods of Approximation to the Roots of Numerical Equations of One Unknown Quantity Florian

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**Equations** Florian Cajori,1907

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**General survey of the history of elementary mathematics** David Eugene Smith,1923

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Robert Chambers,1879

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