

## 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.

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

$$(x + 2) \text{ is a factor because } f(-2) = 0$$

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

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

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

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

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

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# 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

Cajori, 1910     **Algebra** Paul Allen Towne, 1865     *Fearless Symmetry* Avner Ash, Robert Gross, 2006 Mathematicians solve equations or try to. But sometimes the solutions are not as interesting as the beautiful symmetric patterns that lead to them. Written in a friendly style for a general audience, *Fearless Symmetry* is the first popular math book to discuss these elegant and mysterious patterns and the ingenious techniques mathematicians use to uncover them. Hidden symmetries were first discovered nearly two hundred years ago by French mathematician Évariste Galois. They have been used extensively in the oldest and largest branch of mathematics, number theory, for such diverse applications as acoustics, radar, and codes and ciphers. They have also been employed in the study of Fibonacci numbers and to attack well-known problems such as Fermat's Last Theorem, Pythagorean Triples, and the ever-elusive Riemann Hypothesis. Mathematicians are still devising techniques for teasing out these mysterious patterns, and their uses are limited only by the imagination. The first popular book to address representation theory and reciprocity laws, *Fearless Symmetry* focuses on how mathematicians solve equations and prove theorems. It discusses rules of math and why they are just as important as those in any games one might play. The book starts with basic properties of integers and permutations and reaches current research in number theory. Along the way, it takes delightful historical and philosophical digressions. Required reading for all math buffs, the book will appeal to anyone curious about popular mathematics and its myriad contributions to everyday life.

**Equations** Florian Cajori, 1907     Library of Universal Knowledge, 1880     The International Cyclopaedia Harry Thurston Peck, 1898     **A Dictionary of Science,**

**Literature and Art** William Thomas Brande, Joseph Cauvin, 1845     **Dictionary of Science, Literature, and Art** William

Thomas Brande, 1858     **College Algebra** Henry Lewis Rietz, Arthur Robert Crathorne, 1919     **History of Mathematics:**

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William Codman Sturgis,1907      □□□□□□ ,1920      The International Cyclopaedia ,1900  
    *Chambers's Encyclopædia: ELE to GON* ,1886      **Chambers's Encyclopædia** ,1878  
Robert Chambers,1879

*The Myxomycetes of Colorado*  
*Science Series* ,1904  
**Chambers's Encyclopaedia**

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