

### Rational Root Theorem Worksheet

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**Rational Root Theorem**  
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 R Worksheet by Kuta Software LLC 11) f(x) = x<sup>3</sup> + 4x<sup>2</sup> + 5x + 2 Possible rational zeros: ± 1, ± 2 Rational zeros: { - 1 mult. 2, - 2} 12) f(x) = 5x<sup>3</sup> + 29 x<sup>2</sup> + 19 x - 5 Possible rational zeros: ± 1, ± 5, ± 1 5 Rational zeros: {1 5, - 5, - 1} 13) f(x) = 4x<sup>3</sup> - 9x<sup>2</sup> + 6x - 1 Possible rational zeros: ± 1, ± 1 2, ± 1 4 Rational zeros: {1 mult. 2, 1 4}

State the possible rational zeros for each function.  
 Worksheet by Kuta Software LLC-4-Answers to 5.1: Rational Root Theorem (ID: 1) 1) Possible rational zeros: ± 1, ± 2, ± 1 2 Factors to: f(x) = (2x - 1)(x - 2)(x + 1) Rational zeros: {1 2, 2, -1} 3) Possible rational zeros: ± 1, ± 1 2 Factors to: f(x) = (x - 1) 2 (2x - 1) Rational zeros: {1 mult. 2, 1 2} 5) Possible rational zeros: ± 1, ± 1 2 Factors to: f(x) = (2x + 1)(x + 1)(x - 1)

**Infinite Algebra 2 - 5.1: Rational Root Theorem**  
 Example: 3 2 ( ) 3 4 12 f x x x x For situations where we need to find all the roots, we can use the Rational Root Theorem. In order to fully understand this theorem, we must become familiar with the Factor/Remainder Theorem. Factor/Remainder Theorem - Let k be any number: 1. If f(k) = 0, then k is \_\_\_\_ 2.

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[Rational Root Theorem Worksheets - Learny Kids](#)  
 Rational Root Theorem Worksheet. Please do all work on a separate sheet of paper. State the possible rational zeros for each function. Then find all rational zeros. 1) f(x) = 3x<sup>3</sup> + 5x<sup>2</sup> - 11 x + 3 2) f(x) = 2x<sup>3</sup> - 5x<sup>2</sup> + 4x - 1 3) f(x) = x<sup>3</sup> - 2x<sup>2</sup> - x + 2 State the possible rational zeros for each function. Then find all zeros.

[Rational Root Theorem Worksheet. Please do all work on a ...](#)  
 State the possible rational zeros for each function. Then factor each and find all zeros. 1) f(x) = 5 x 3 - 11 x 2 + 7 x - 1 2) f(x) = 3 x 3 + 11 x 2 + 5 x - 3

[Rational Roots Theorem and Factoring/Solving 3](#)  
 Rational Root Theorem. Related Topics: More Lessons for College Algebra. Math Worksheets. A series of college algebra lectures: Presenting the Rational Zero Theorem. Find all zeros for a polynomial. The following diagram shows how to use the Rational Root Theorem. Scroll down the page for more examples and solutions on using the Rational Root Theorem or Rational Zero Theorem.

[Rational Root Theorem \(examples, solutions, worksheets ...](#)  
 Fill in the blanks: The Rational Roots Theorem: Given a polynomial f(x) the only possible rational solutions of the equation f(x) = 0 are \_\_\_\_\_. Where p is a factor of \_\_\_\_\_ and q is a factor of \_\_\_\_\_. Use the rational roots theorem and the factor theorem to factor the following polynomials (you may use your calculator as much as you like). x<sup>4</sup>-3x<sup>2</sup>-4x+12 2x<sup>4</sup>-5x<sup>3</sup>-14x<sup>2</sup>+5x+12.

[Worksheet - Madison West High School](#)  
 The first one is the integer root theorem. If f(x) f(x) f(x) is a monic polynomial (leading coefficient of 1), then the rational roots of f(x) f(x) f(x) must be integers. By the rational root theorem, if r = a/b r = a/b r = a/b is a root of f(x) f(x) f(x), then b | p n b | p n b | p n.

[Rational Root Theorem | Brilliant Math & Science Wiki](#)  
 PDF (4.88 MB) This worksheet is a fun way for your students to practice finding rational roots using the rational roots theorem. Students match functions to their rational roots and students will know right away if they've done it correctly because of the puzzle! The file contains the student worksheet and teache.

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[Zeros of a functions - Descartes Rule - Rational Root ...](#)  
 The Rational Roots Theorem. The rational roots theorem is a very useful theorem. It tells you that given a polynomial function with integer or whole number coefficients, a list of possible ...

[How to Use the Rational Roots Theorem: Process & Examples ...](#)  
 The Rational Root Theorem says if a polynomial equation a n x n + a n - 1 x n - 1 + ... + a 1 x + a 0 = 0 has rational root p/q (p, q ∈ Z) then the denominator q divides the leading coefficient and the numerator p divides a 0. As an addition to this theorem, for every whole number k, number p - k q is a divisor of f(k). Example 1.

[Definition of rational root theorem - Free Math Worksheets](#)  
 In this rational zero theorem worksheet, 11th graders solve and complete 7 different problems. First, they list all of the possible rational zeros of each function. Then, students find all of the rational roots of each function... Get Free Access See Review

[Rational Roots Theorem Lesson Plans & Worksheets Reviewed ...](#)  
 The Rational Root Theorem says " if " there is a rational answer, it must be one of those numbers. Some of those possible answers repeat. To find which, or if any of those fractions are answer, you have to plug each one into the original equation to see if any of them make the open sentence true.

[30 Rational Root Theorem - Hanlon Math](#)  
 The rational root theorem and the factor theorem are used, in steps, to factor completely a cubic polynomial. Rational root theorem: If the polynomial P of degree 3 (or any other polynomial), shown below, has rational zeros equal to p/q, then p is a integer factor of the constant term d and q is an integer factor of the leading coefficient a.

[Factor a Polynomial Using Rational Root and Factor theorems](#)  
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[Rational Zeros Theorem Worksheets - Learny Kids](#)  
 Use Remainder, Factor, & Rational Root Theorems, & Solve Polynomial Equations: NO Prep lesson contains everything needed to teach the Remainder theorem, Factor theorem, Rational Root theorem & how to use them to solve polynomial equations. A step-by-step review of synthetic division of polynomials is also included.