

Algebra 2
Rational Unit Test Review

Part 1: Graphing Rational Functions Through Transformations

Determine the transformation of each function. Graph the function and determine the domain and range.

1. $y = \frac{8}{x+2} + 3$

2. $y = \frac{5}{x+4} - 2$

3. $y = -\frac{8}{x} - 6$

4. $y = \frac{4}{x-5}$

5. $y = \frac{-3}{x+3} + 4$

6. $y = 2 + \frac{5}{x+4}$

Part 2: Rational Functions

Determine the vertical asymptote, holes, and domain for each graph.

1. $y = \frac{x^2 + 2x}{-4x + 8}$

2. $y = \frac{3}{4x + 3(x-5)}$

3. $y = \frac{2x^2 + 10x + 12}{x^2 + 3x + 2}$

4. $y = \frac{x+3}{2x+6}$

5. $y = \frac{3x}{4(x-7)}$

6. $y = \frac{x-3}{x+2}$

7. $y = \frac{x-4}{-4x+16}$

8. $y = \frac{x+4}{-2x+6}$

9. $y = \frac{x^2 - 9x}{3x^2 - 6x - 9}$

Part 3: Multiplying and Dividing Rational Expressions

Simplify each expression, determine what x can not equal so the denominator does NOT equal 0.

1. $\frac{x+3}{8} \cdot \frac{3x+18}{3x+9}$

2. $\frac{28-7y}{y-4} \cdot \frac{1}{y+10}$

3. $\frac{2}{x^2 - 12x + 27} \cdot \frac{x^2 - 12x + 27}{5}$

4. $\frac{x^2 + x - 56}{x^2 - 2x - 80} + \frac{3}{x+10}$

5. $\frac{28x^2 - 128}{x+5} + \frac{8-6}{8+5}$

6. $\frac{5}{x+9} + \frac{6-x}{3x+18}$

7. $\frac{32x^2y^3}{5x} \cdot \frac{16x}{y^3}$

8. $\frac{8x^2y}{2y} \cdot \frac{4x^2}{8y^2}$

9. $\frac{51x^2y^3}{12x^2} \cdot \frac{8x^2}{y^3}$

10. $\frac{32x^3}{y^2} + \frac{x^3}{y^2}$

11. $\frac{-2x^2}{15y^3} + \frac{8x^2y^2}{30x}$

12. $\frac{51x^2y}{-6xy} + \frac{6x^2}{4y^3}$

Graphing Practice Mixed Rationals Algebra 2 Key

Cynthia Y. Young



Graphing Practice Mixed Rationals Algebra 2 Key:

Power Practice: Algebra, Gr. 5-8, eBook Pam Jennett, 2004-09-01 Topics include linear equations inequalities and absolute values systems of linear equations powers exponents and polynomials quadratic equations and factoring rational expressions and proportions and more Also includes practice pages assessment tests reproducible grid paper and an answer key Supports NCTM standards

Pre-Algebra Instructional Fair, 2002-05 Contains answer key Designed to provide students with practice in the necessary skill areas involved in mastering pre algebra concepts

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Intermediate Algebra Graph Aie Sup Martin-gay, 2004-04 Prentice Hall Algebra 1 Jan Fair, 1992 *ACCUPLACER For Dummies with Online Practice Tests* Mark Zegarelli, 2019-07-30 Get on the right college path with the next generation ACCUPLACER The next generation ACCUPLACER is a compilation of computerized assessments that s designed to evaluate a student s skills in reading writing mathematics and computer abilities Next generation ACCUPLACER determines how prepared students are for college courses and places them in the appropriate course level where they will best succeed and grow as a learner Next Generation ACCUPLACER For Dummies with Online Practice is the one stop guide for students who want to get a head start on scoring well on the important college placement tests for reading writing and math With tips tricks and plenty of practice questions in the book plus two full length practice tests online it helps you know what to expect and perform your absolute best on test day Identify knowledge gaps and areas of strength Find skill building support with tools that improve your readiness for college Get placed into the right college course Discover preparation tactics and opportunities for individual success If you re looking for a one stop resource for preparing for the next generation

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Introductory and Intermediate Algebra Margaret L. Lial, John Hornsby, Terry McGinnis, 2001-11 The Lial Hornsby developmental mathematics paperback series has helped thousands of students succeed in math In keeping with its proven track record this revision includes a sharp new design many new exercises and applications and several new features to enhance student learning Among the features added or revised

include a new Study Skills Workbook a Diagnostic Pretest Chapter Openers Test Your Word Power Focus on Real Data Applications and increased use of the authors six step problem solving process *Math Advantage* Grace M. Burton,Harcourt Brace,1998-05-22 *Algebra Essentials and Applications* Joseph C. Power,2001 Algebra and Trigonometry Cynthia Y. Young,2017-11-20 Cynthis Young s Algebra Trigonometry Fourth Edition will allow students to take the guesswork out of studying by providing them with a clear roadmap what to do how to do it and whether they did it right while seamlessly integrating to Young s learning content Algebra Trigonometry Fourth Edition is written in a clear single voice that speaks to students and mirrors how instructors communicate in lecture Young s hallmark pedagogy enables students to become independent successful learners Varied exercise types and modeling projects keep the learning fresh and motivating Algebra Trigonometry 4e continues Young s tradition of fostering a love for succeeding in mathematics

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Introductory Algebra Alan Wise,1986 **College Algebra** Cynthia Y. Young,2012-10-02 This is the Student Solutions Manual to accompany College Algebra 3rd Edition The 3rd edition of Cynthia Young s College Algebra brings together all the elements that have allowed instructors and learners to successfully bridge the gap between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students ability to do mathematics Written in a clear voice that speaks to students and mirrors how instructors communicate in lecture Young s hallmark pedagogy enables students to become independent successful learners **Algebra Facts** Theodore John Szymanski,1993 Provides easy access to the most crucial concepts and formulas in basic algebra College Algebra Thomas W. Hungerford,Richard Mercer,1982 **Algebra and Trigonometry** Michael Sullivan,1996 This text uses the graphing utility to enhance the study of mathematics Many of the problems are solved using both algebra and a graphing utility and the text illustrates the advantages and benefits of each approach Technology is used to solve problems when no algebraic solution is available College Algebra David E. Stevens,1994

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