

Name: _____

n^{th} Roots and Rational Exponents

Write each expression in radical form

① $3^{\frac{5}{3}}$

② $10^{\frac{4}{3}}$

③ $(7b)^{\frac{2}{3}}$

④ $(7m)^{-\frac{5}{3}}$

⑤ $(b^2)^{\frac{1}{3}}$

⑥ $(7r)^{\frac{5}{3}}$

Write each expression in exponential form

⑦ $(\sqrt[4]{3p})^7$

⑧ $\frac{1}{\sqrt[6]{10}}$

⑨ $\frac{1}{(\sqrt[3]{3x})^4}$

⑩ $(\sqrt[5]{10x})^6$

⑪ $(\sqrt[5]{10})^3$

⑫ $\frac{1}{(\sqrt[3]{x})^2}$

Simplify

⑬ $\sqrt[3]{-250}$

⑭ $\sqrt[3]{375}$

⑮ $\sqrt[6]{384x^6y^5}$

⑯ $(125)^{\frac{4}{3}}$

⑰ $(216)^{\frac{2}{3}}$

⑱ $(32)^{\frac{3}{5}}$

Algebra Practice Rational Exponents

**Barbara R. Sandall, Ed.D., Melfried
Olson, Travis Olson**



Algebra Practice Rational Exponents:

Algebra Practice Book, Grades 7 - 12 Barbara R. Sandall, Ed.D., Melfried Olson, Travis Olson, 2006-01-01 Simplifies the concepts of number systems exponential expressions square roots and radical expressions graphing as well as linear and quadratic functions Includes clear instructions examples practice problems definitions problem solving strategies an assessment section answer keys and references Geared toward struggling students Supports NCTM standards **Algebra Practice Book, Grades 7 - 8** Barbara R. Sandall, Melfried Olson, Travis Olson, 2008-09-02 Make algebra equations easy for students in grades 7 and up using Algebra Practice This 128 page book is geared toward students who struggle in algebra and covers the concepts of number systems exponential expressions square roots radical expressions graphing and linear and quadratic functions The book supports NCTM standards and includes clear instructions examples practice problems definitions problem solving strategies an assessment section answer keys and references Pure Mathematics Geoff Mannall, Michael Kenwood, 2000 A syllabus specific textbook providing worked examples exam level questions and many practice exercises in accordance to the new Edexcel AS and Advanced GCE specification **Algebra II All-in-One For Dummies** Mary Jane Sterling, 2022-08-30 Every intermediate algebra lesson example and practice problem you need in a single easy to use reference Algebra II can be a tough nut to crack when you first meet it But with the right tools well she s still tough but she gets a heckuva lot easier to manage In Algebra II All in One For Dummies you ll find your very own step by step roadmap to solving even the most challenging Algebra II problems from conics and systems of equations to exponential and logarithmic functions In the book you ll discover the ins and outs of function transformation and evaluation work out your brain with complex and imaginary numbers and apply formulas from statistics and probability theory You ll also find Accessible and practical lessons and practice for second year high school or university algebra students End of chapter quizzes that help you learn and remember key algebraic concepts such as quadratic equations graphing techniques and matrices One year access to additional chapter quizzes online where you can track your progress and get real time feedback Your own personal mathematical toolbox for some of the most useful and foundational math you ll learn in school this Algebra II All in One For Dummies combines hands on techniques methods and strategies from a variety of sources into one can t miss reference You ll get the insights formulas and practice you need all in a single book with additional quizzes online that s ideal for students and lifelong learners alike **Praxis Algebra I (5162) for Beginners** Reza Nazari, 2023-04-19 Praxis Algebra I test taker s 1 Choice Recommended by Test Prep Experts Praxis Algebra I 5162 for Beginners is the ultimate guide for students of all levels delivering the most efficient techniques and tactics to prepare for the Praxis Algebra I exam This thorough current guide complies with the 2023 test standards ensuring you re on the correct path to enhance your math abilities overcome exam stress and increase your confidence Are you prepared to excel in the Praxis Algebra I test This comprehensive workbook is crafted to develop confident knowledgeable students who possess all the skills required to

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Helping Students Understand Algebra II, Grades 7 - 8 Sandall, Swarthout, 2008-08-28 Facilitate a smooth transition from algebra to algebra II for students in grades 7 and up using Helping Students Understand Algebra II This 128 page book includes step by step instructions with examples practice problems using the concepts real life applications a list of symbols and terms tips and answer keys The book supports NCTM standards and includes chapters on topics such as solving equations inequalities polynomials rational expressions roots and radicals and quadratic expressions **Algebra I Workbook For Dummies** Mary Jane Sterling, 2017-04-17 The grade saving Algebra I companion with hundreds of additional practice problems online Algebra I Workbook For Dummies is your solution to the Algebra brain block With hundreds of practice and example problems mapped to the typical high school Algebra class you ll crack the code in no time Each problem includes a full explanation so you can see where you went wrong or right every step of the way From fractions to FOIL and everything in between this guide will help you grasp the fundamental concepts you ll use in every other math class you ll ever take This new third edition includes access to an online test bank where you ll find bonus chapter quizzes to help you test your understanding and pinpoint areas in need of review Whether you re preparing for an exam or seeking a start to finish study aid this workbook is your ticket to acing algebra Master basic operations and properties to solve any problem Simplify expressions with confidence Conquer factoring and wrestle equations into submission Reinforce learning with online chapter quizzes Algebra I is a fundamentally important class What you learn here will follow you throughout Algebra II Trigonometry Calculus and beyond including Chemistry Physics Biology and more Practice really does make perfect and this guide provides plenty of it Study practice and score high **Algebra, Grades 5 - 12**, 2014-03-15 Kelley Wingate s Algebra

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Algebra I for Beginners Reza Nazari, 2023-01-30 The Only Book You Will Ever Need to Ace Algebra I Course Algebra I for Beginners is a comprehensive guide for those just starting out in algebra Designed for high school students or those looking to brush up on their skills this book provides a clear and easy to follow approach to the subject From solving linear equations to graphing quadratic functions this book covers all the core concepts of Algebra I With complete coverage of Algebra I topics step by step explanations and a wealth of examples and practice problems Algebra I for Beginners offers the best education possible Written by a math teacher and expert the book is aligned with Algebra I courses and features an engaging writing style that makes it easy to understand and retain the material Whether you're struggling with algebra or simply looking to improve your skills this book is an excellent resource Ideal for self study or for use in the classroom it will help you develop a strong foundation in the subject Get ready for the Algebra I Exam with a perfect prep book from Effortless Math Education Published by Effortless Math Education www.EffortlessMath.com

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