

Name: _____

ANSWER KEY

Date: _____



SIMPLIFYING RATIONAL EXPONENTS AND RADICALS

SHOW ALL WORK, then match with the answers below.

I. Write using radical notation. Then, simplify, if possible.

$$\underline{S} \ 1) -81^{\frac{1}{4}} \\ \sqrt[4]{-81} \\ \boxed{-9}$$

$$\underline{F} \ 2) (-1024)^{\frac{1}{5}} \\ \sqrt[5]{-1024} \\ \boxed{-4}$$

$$\underline{U} \ 3) -27^{-\frac{1}{3}} = -\frac{1}{27^{\frac{1}{3}}} \\ = -\frac{1}{\sqrt[3]{27}} = -\frac{1}{3} \quad \boxed{-\frac{1}{3}}$$

$$\underline{V} \ 4) (y^9)^{-\frac{1}{3}} = (y^9)^{-\frac{1}{3}} \cdot \sqrt[3]{\frac{1}{y^9}}$$

II. Use the laws of exponents to simplify. Then, write the answer in radical form, and simplify if possible.

$$\underline{A} \ 5) x^{\frac{2}{3}} \cdot x^{\frac{1}{3}} = x^{\frac{2}{3} + \frac{1}{3}} = x^1 \\ \sqrt[3]{x}$$

$$\underline{Y} \ 6) (25^{\frac{1}{2}})^{\frac{1}{2}} = 25^{\frac{1}{2} \cdot \frac{1}{2}} = 25^{\frac{1}{4}} \\ \sqrt[4]{25} = \boxed{5}$$

$$\underline{X} \ 7) 9x^{\frac{1}{2}} \cdot x^{\frac{1}{2}} \\ 9x^{\frac{1}{2} + \frac{1}{2}} = \boxed{9x}$$

$$\underline{R} \ 8) \frac{(x^{\frac{1}{2}})^6}{4x^{\frac{1}{2}}} = \frac{2^6 x^{\frac{6}{2}}}{4x^{\frac{1}{2}}} = \frac{64x^3}{4x^{\frac{1}{2}}} \\ = \boxed{\frac{16x^{\frac{5}{2}}}{x^{\frac{1}{2}}}}$$

Explration Of Rational Exponents Answer Key

Margo Gottlieb, Gisela Ernst-Slavit



Exploration Of Rational Exponents Answer Key:

Exploring Intermediate Algebra Richard N. Aufmann, Joanne S. Lockwood, Laurie Boswell, 2004 The Instructor's Annotated Edition features Instructor Notes with teaching ideas warnings about common student errors and historical notes Instructor Notes next to each Example refer teachers to a similar problem in the following exercise set for possible use as an additional in class example Suggested Activities found in the margin can be used in class to explore concepts as alternative discovery strategies for teaching the concept or as cooperative learning activities Suggested Assignments before each exercise set save instructors class preparation time *Explorations in College Algebra* Kime, 1996-09 California Common Core State Standards California. Department of Education, 2013 **Algebra 1 : explorations and applications** Miriam A. Leiva, 1997 *Prentice Hall Middle Grades Mathematics*, 1995 Applying Algebraic Thinking to Data Phil DeMarois, Mercedes A. McGowen, Darlene Whitkanack, 2005-12-30 Irm Tle Alg Coll Stdts Decell, 2001-08 **Eureka Math Grade 6 Study Guide** Great Minds, 2016-04-04 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 6 provides an overview of all of the Grade 6 modules including Ratios and Unit Rates Arithmetic Operations Including Dividing by a Fraction Rational Numbers Expressions and Equations Area Surface Area and Volume Problems Statistics Academic Language in Diverse Classrooms: Mathematics, Grades 6-8 Margo Gottlieb, Gisela Ernst-Slavit, 2013-05-09 Make every student fluent in the language of learning The Common Core and ELD standards provide pathways to academic success through academic language Using an integrated Curricular Framework districts schools and professional learning communities can Design and implement thematic units for learning Draw from content and language standards to set targets for all students Examine

standards centered materials for academic language Collaborate in planning instruction and assessment within and across lessons Consider linguistic and cultural resources of the students Create differentiated content and language objectives Delve deeply into instructional strategies involving academic language Reflect on teaching and learning **Developmental Mathematics** Dennis C. Ebersole, 1992-11

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