

Name: _____

Unit 6: Exponents & Exponential Functions

Date: _____ Bell: _____

Homework 4: Negative Exponents

**Directions:** Simplify the following monomials. Your answer should contain positive exponents only!1. x^{-7}

$$\frac{1}{x^7}$$

2. $5x^2y^3$

$$\frac{5x^2}{y^3}$$

3. $-4a^{-2}b^{-2}$

$$\frac{-4}{a^2b^2}$$

4. $(ab^2)^{-4}$

$$a^{-4}b^{-8}$$

$$= \boxed{\frac{1}{a^4b^8}}$$

5. $-8(x^3y^4)^{-5}$

$$-8x^{15}y^{-20}$$

$$= \boxed{\frac{-8x^{15}}{y^{20}}}$$

6. $(3x)^{-3}$

$$\frac{1}{27}x^{-3}$$

$$= \boxed{\frac{1}{27x^3}}$$

7. $(a^2)(a^3)$

$$a^{-5}$$

$$= \boxed{\frac{1}{a^5}}$$

8. $(x^2)^{-3}(-2y^5)^4$

$$x^{-6} \cdot 16y^{20}$$

$$= \boxed{\frac{16y^{20}}{x^6}}$$

9. $(a^2b^3)^{-2}(a^5b^4)^{-3}$

$$a^{-4}b^{-6} \cdot a^{-15}b^{-12}$$

$$= \boxed{\frac{1}{a^{19}b^{18}}}$$

10. $(2x)^{-5}$

$$\frac{1}{32x^5}$$

$$= \boxed{\frac{1}{32x^5}}$$

11. $(-11x^2)^{-2}$

$$\frac{1}{121x^4}$$

$$= \boxed{\frac{1}{121x^4}}$$

12. $(x^3y)^{-2} + (x^2y^4)^{-3}$

$$x^{-6}y^{-2} + x^{-6}y^{-12}$$

$$= \boxed{\frac{1}{x^6y^2} + \frac{1}{x^6y^{12}}}$$

13. $\frac{1}{2}x^{-2}$

$$\frac{1}{2x^2}$$

$$= \boxed{\frac{1}{2x^2}}$$

14. $\frac{1}{25}x^{-4}$

$$\frac{1}{25x^4}$$

$$= \boxed{\frac{1}{25x^4}}$$

15. $\frac{1}{125}x^{-3}$

$$\frac{1}{125x^3}$$

$$= \boxed{\frac{1}{125x^3}}$$

16. $\frac{1}{8}ab^{-2}$

$$\frac{1}{8}ab^{-2}$$

$$= \boxed{\frac{1}{8}ab^{-2}}$$

17. $\frac{1}{27}x^{-3}$

$$\frac{1}{27x^3}$$

$$= \boxed{\frac{1}{27x^3}}$$

18. $\frac{1}{125}x^{-3}$

$$\frac{1}{125x^3}$$

$$= \boxed{\frac{1}{125x^3}}$$

19. $\frac{1}{125}x^{-3}$

$$\frac{1}{125x^3}$$

$$= \boxed{\frac{1}{125x^3}}$$

20. $\frac{1}{125}x^{-3}$

$$\frac{1}{125x^3}$$

$$= \boxed{\frac{1}{125x^3}}$$

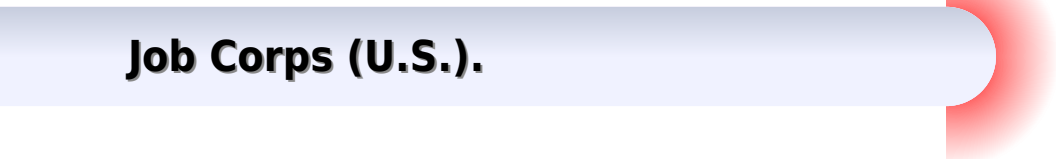
21. $\frac{1}{125}x^{-3}$

$$\frac{1}{125x^3}$$

$$= \boxed{\frac{1}{125x^3}}$$

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Fostering Children's Mathematical Power Arthur Baroody, Arthur J. Baroody, Jesse L.M. Wilkins, Ronald T. Coslick, 1998-09-01 Teachers have the responsibility of helping all of their students construct the disposition and knowledge needed to live successfully in a complex and rapidly changing world To meet the challenges of the 21st century students will especially need mathematical power a positive disposition toward mathematics curiosity and self confidence facility with the processes of mathematical inquiry problem solving reasoning and communicating and well connected mathematical knowledge an understanding of mathematical concepts procedures and formulas This guide seeks to help teachers achieve the capability to foster children s mathematical power the ability to excite them about mathematics help them see that it makes sense and enable them to harness its might for solving everyday and extraordinary problems The investigative approach attempts to foster mathematical power by making mathematics instruction process based understandable or relevant to the everyday life of students Past efforts to reform mathematics instruction have focused on only one or two of these aims whereas the investigative approach accomplishes all three By teaching content in a purposeful context an inquiry based fashion and a meaningful manner this approach promotes children s mathematical learning in an interesting thought provoking and comprehensible way This teaching guide is designed to help teachers appreciate the need for the investigative approach and to provide practical advice on how to make this approach happen in the classroom It not only dispenses information but also serves as a catalyst for exploring conjecturing about discussing and contemplating the teaching and learning of mathematics [Eureka Math Algebra II Study Guide](#) Great Minds, 2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We re here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more [Strategies for Implementing Guided Math](#) Laney Sammons, 2012-07-01 This resource provides specific strategies for implementing the seven elements of the Guided Math Framework In addition this professional resource includes digital resources sample lessons activities and classroom snapshots of strategy implementation at three grade level spans K 2 3 5 and 6 8 [Advanced general education program](#) Job Corps (U.S.), 1977 **Research in Education** , 1973 **Resources in Education** , 1992-04 [Graphing Calculator](#)

Strategies: Algebra Pamela H. Dase, 2006-12-04 Integrate TI Graphing Calculator technology into your algebra instruction with this award winning resource book Perfect for grades 6-12 this resource includes lessons problem solving practice and step by step instructions for using graphing calculator technology 238pp plus Teacher Resource CD with PDF files of the tables templates activity sheets and student guides for TI 83/84 Plus Family and TI 73 Explorer This resource is correlated to the Common Core State Standards is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills and supports core concepts of STEM instruction

Clothesline Math: The Master Number Sense Maker Chris Shore, 2019-12-10 This must have resource provides the theoretical groundwork for teaching number sense Authored by Chris Shore this e book empowers teachers with the pedagogy lessons and detailed instructions to help them implement Clothesline Math in K-12 classrooms Detailed useful tips for facilitating the ensuing mathematical discourse are also included At the elementary level the hands on lessons cover important math topics including whole numbers place value fractions order of operations algebraic reasoning variables and more Implement Clothesline Math at the secondary level and provide students with hands on learning and activities that teach advanced math topics including geometry algebra statistics trigonometry and pre calculus Aligned to state and national standards this helpful resource will get students excited about learning math as they engage in meaningful discourse

Longman Active Maths 8 Khurana Rohit, 2009-09 The Parallel Curriculum in the Classroom, Book 2 Carol Ann Tomlinson, Sandra N. Kaplan, Jeanne H. Purcell, Jann H. Leppien, Deborah E. Burns, Cindy A. Strickland, 2005-09-08 Learn to design exemplary Parallel Curriculum Units from the experts classroom teachers What is the best way to incorporate the four parallels into your Parallel Curriculum Unit How do teachers using the Parallel Curriculum Model (PCM) craft units based on the PCM and why do they utilize certain elements and downplay others What does a complete Parallel Curriculum Unit look like This compilation of Parallel Curriculum Units provides a close up look into the development of PCM units and how those units work in actual classroom settings The Parallel Curriculum in the Classroom Book 2 reflects a variety of Parallel Curriculum units spanning primary elementary middle and high school levels of instruction and encompassing the disciplines of social studies science art math and language arts Across each unit the authors present a framework of three essential components in an effective Parallel Curriculum Unit The big picture of grade level subject goals and standards The unpacking or step by step explanation of the unit The reasoning behind the unit design Whether using each parallel independently or combining all four parallels into curriculum design teachers will find the units included here are exemplary models for creating their own parallel curriculum units Use them as professional development tools to help plan thoughtful curriculum based upon the Parallel Curriculum Model

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