

LESSON
7-1**Finding Rational Solutions of Polynomial Equations*****Practice and Problem Solving: C***

Solve each polynomial equation by factoring.

1. $-3x^4 + 6x^3 + 105x^2 = 0$

2. $8x^7 - 56x^6 + 96x^5 = 0$

Identify the rational zeros of each function. Then write the function in factored form.

3. $f(x) = x^3 + 6x^2 + 12x - 8$

4. $f(x) = x^3 + 10x^2 + 32x + 32$

Identify all the rational roots of each equation.

5. $x^3 + 2x^2 - 48x = 0$

6. $5x^4 + 19x^3 - 29x^2 + 5x = 0$

7. $6x^3 + 12x^2 - 18x = 0$

8. $3x^4 + 5x^3 - 11x^2 + 3x = 0$

Solve.

9. A jewelry box is designed such that its length is twice its width and its depth is 2 inches less than its width. The volume of the box is 64 cubic inches.

a. Write an equation to model the volume of the box.

b. List all possible rational roots. _____

c. Use synthetic division to find the roots of the polynomial equation. Are the roots all rational numbers?

d. What are the dimensions of the box? _____

Finding Asymptotes Precalculus Unit Lesson 1 Answer Key

Jicheng Xie



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Precalculus with Calculus

Previews: Expanded Volume Dennis G. Zill, Jacqueline M. Dewar, 2009-01-03 *Precalculus: The Easy Way* Christina Pawlowski-Polanish, Lawrence Leff, 2019-09-03 A self-teaching guide for students Precalculus The Easy Way provides easy-to-follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Precalculus The Easy Way covers Algebraic Methods Functions and Graphs Complex Numbers Polynomial and Rational Functions Calculus Preview And more Precalculus Mathematics Franklin D. Demana, Bert K. Waits, Stanley R. Clemens, 1992 *Barron's Math 360: A Complete Study Guide to Pre-Calculus with Online Practice* Barron's Educational Series, Lawrence S. Leff, Christina Pawlowski-Polanish, 2021-09-07 Barron's Math 360 Pre-Calculus is your complete go-to guide for everything pre-calculus This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of pre-calculus and build as you go Topics include algebraic methods functions and graphs complex numbers polynomial and rational functions and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy-to-follow explanations hundreds of helpful illustrations and numerous step-by-step examples make this book ideal for self-study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come

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Precalculus with Unit-circle Trigonometry David Cohen, 1998 Precalculus with Unit Circle Trigonometry Third Edition by David Cohen continues to create a book that is

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