

Chapter 10 Mid-Chapter Test

(Lessons 10-1 through 10-3)

SCORE _____

Part I Write the letter for the correct answer in the blank at the right of each question.

1. Which of the following is equivalent to $\csc^2 \theta + 1$?

A $\cot^2 \theta$

B $\cot^2 \theta + 2$

C $\sin^2 \theta$

D $\sin^2 \theta - 2$

9. Simplify $\frac{\cos^2 \theta + \sin^2 \theta}{\sec \theta}$

2. Find the exact value of $\cos \theta$ if $\sin \theta = \frac{2}{3}$ and $90^\circ < \theta < 180^\circ$.

F $\frac{\sqrt{5}}{3}$

G $-\frac{2\sqrt{2}}{3}$

H $\frac{2\sqrt{2}}{3}$

J $-\frac{\sqrt{5}}{3}$

10. Simplify $\frac{\cot \theta \sec \theta}{\csc \theta}$

3. Which of the following is equivalent to $\frac{1}{\cos^2 \theta} - 1$?

A $\tan^2 \theta$

B $\cot^2 \theta$

C $\sec^2 \theta$

D $\csc^2 \theta$

11. Verify that $\frac{\csc^2 \theta - \cot^2 \theta}{\cot \theta} = \tan \theta$ is an identity.

4. Find the exact value of $\sin 15^\circ$.

F $-\frac{\sqrt{2} + \sqrt{6}}{4}$
 $\frac{\sqrt{6} + \sqrt{2}}{4}$

G $\frac{\sqrt{2} - \sqrt{6}}{4}$

H $\frac{\sqrt{6} - \sqrt{2}}{4}$

J

5. Which expression is equivalent to $\frac{1 + \sin^2 \theta \sec^2 \theta}{\sec^2 \theta} - \cos^2 \theta$?

A 1

B $\csc^2 \theta$

C $\sin^2 \theta$

D $2 \cos^2 \theta$

Part II

6. Verify that $1 = \csc^2 \theta - \frac{\csc^2 \theta}{\sec^2 \theta}$ is an identity.

7. Find the exact value of $\sin \frac{23\pi}{12}$.

8. Find $\sin \theta$ if $\cos \theta = \frac{3}{4}$ and $0^\circ \leq \theta < 90^\circ$.

Chapter 10 Test A Algebra 1 Key

**Margaret L. Lial, E. John Hornsby,
Jr., Charles D. Miller**



Chapter 10 Test A Algebra 1 Key:

Pre-algebra Phares G. O'Daffer, 1992 Pre algebra text with accompanying workbook and teacher's materials provides a program in mathematics which is a transition from arithmetic to algebra Includes decimals number theory equations percent ratio area and volume statistics and square roots **A High School Algebra. (Key.)**. Jacob William Albert Young, Lambert Lincoln Jackson, 1913 *Addison-Wesley Access to Algebra and Geometry* Phares G. O'Daffer, 1995 **ACT Math For Dummies** Mark Zegarelli, 2011-06-09 Multiply your chances of success on the ACT Math Test The ACT Mathematics Test is a 60 question 60 minute subtest designed to measure the mathematical skills students have typically acquired in courses taken by the end of 11th grade and is generally considered to be the most challenging section of the ACT ACT Math For Dummies is an approachable easy to follow study guide specific to the Math section complete with practice problems and strategies to help you prepare for exam day Review chapters for algebra geometry and trigonometry Three practice tests modeled from questions off the most recent ACT tests Packed with tips useful information and strategies ACT Math For Dummies is your one stop guide to learn review and practice for the test *Tips in algebra. [With] Key* Arthur Douglas Capel, 1887 *Holt Algebra 1* 2003 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 *Intermediate Algebra* Margaret L. Lial, E. John Hornsby, Jr., Charles D. Miller, 1996 Gives students the necessary tools to succeed in developmental math courses and prepares them for future math courses This book includes exercises and applications and Summary Exercises to enhance comprehension and challenge students knowledge of the subject matter ACT Math Prep For Dummies Mark Zegarelli, 2024-05-07 Improve your score on the math section of the ACT A good math score on the ACT exam can set you on the path to a number of rewarding college programs and future careers especially in the STEM fields ACT Math Prep For Dummies walks you through this challenging exam section with simple explanations of math concepts and proven test taking strategies Now including access to an all new online test bank so you can hammer out even more practice sessions this book will help you hone your skills in pre algebra algebra geometry trigonometry and beyond Handy problem solving tips mean you'll be prepared for the ever more advanced questions that the ACT throws at students each year Learn exactly what you'll need to know to score well on the ACT math section Get tips for solving problems quicker and making good guesses when you need to Drill down into more complex concepts like matrices and functions Practice practice practice with three online tests If you're a high school student preparing to take the ACT and you need extra math practice ACT Math Prep For Dummies has your back *Math* Thomas J. Richards, Vincent Douglas, School Specialty Children's Publishing (Firm), Carson-Dellosa Publishing, 1999-05-25 With the Spectrum Math grade 7 workbook you can expect your child to develop skills in problem solving addition subtraction multiplication division ratio proportion decimals fractions percent interest metric measurement geometry statistics and probability **Algebra for College Students** Daniel L. Auvil, 1995-10 **Spectrum Math, Grade 6** Vincent Douglas, School Specialty Children's Publishing (Firm), 1999-03-29 With the Spectrum

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