

# TRAPEZOIDS & PARALLELOGRAMS

**Exercise #1:** In the diagram below,  $ABCD$  is a trapezoid with  $\overline{AB} \parallel \overline{DC}$ .

- (a) What must be true of angle pair  $\angle A$  and  $\angle D$  and angle pair  $\angle B$  and  $\angle C$ ?

$$m\angle A + m\angle D = 180$$

$$m\angle B + m\angle C = 180$$

same-side interior angles are supplementary

- (b) If  $m\angle A = 5x - 15$ ,  $m\angle B = 5x - 2$ , and  $m\angle C = 2x + 7$ , then find the degree measure of  $\angle D$ . Show the work you used.

$$5x - 2 + 2x + 7 = 180$$

$$7x + 5 = 180$$

$$7x = 175$$

$$x = 35$$

to find  $\angle D$  determine  $\angle A$  first!

$$m\angle A = 5(35) - 15$$

$$m\angle A = 160$$

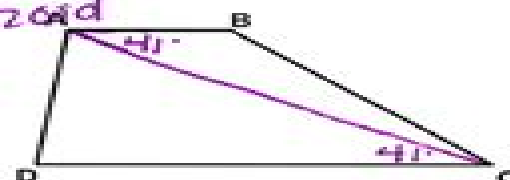
$$m\angle D = 180 - 160 = 20$$

$$m\angle D = 20$$

- (c) Draw in diagonal  $\overline{AC}$ . If  $m\angle BAC = 41^\circ$ , determine  $m\angle DCA$  and explain your answer.

$m\angle DCA = 41$  because  $ABCD$  is a trapezoid with  $\overline{AB} \parallel \overline{DC}$

$\therefore \angle BAC \cong \angle DCA$  because if  $\parallel$  then alternate interior angles are  $\cong$



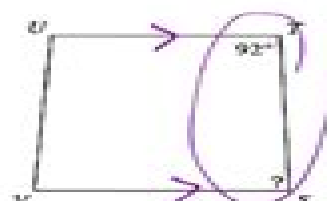
**Exercise #2:** Determine the value of the unknown angle marked with a question mark.

- a)  $\overline{SP} \parallel \overline{RQ}$



$$m\angle R = 115$$

- b)  $\overline{UT} \parallel \overline{VS}$



$$m\angle S = 88$$

# Unit 9 Lesson 1 Geometry Key

**Michael Hoelscher**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Unit 9 Lesson 1 Geometry Key:

**Geometry** Harold R. Jacobs, 2003-03-14 Harold Jacobs's Geometry created a revolution in the approach to teaching this subject one that gave rise to many ideas now seen in the NCTM Standards Since its publication nearly one million students have used this legendary text Suitable for either classroom use or self-paced study it uses innovative discussions cartoons anecdotes examples and exercises that unfailingly capture and hold student interest This edition is the Jacobs for a new generation It has all the features that have kept the text in class by itself for nearly 3 decades all in a thoroughly revised full color presentation that shows today's students how fun geometry can be The text remains proof-based although the presentation is in the less formal paragraph format The approach focuses on guided discovery to help students develop geometric intuition **Resources in Education**, 2000-10 **Research in Education**, 1973 **Research in Education**, 1970 HiSET Exam Prep Kaplan Test Prep, Caren Van Slyke, 2020-04-07 Kaplan's HiSET Exam Prep provides comprehensive review online resources and exam-like practice to help you pass the test Our book is designed for self-study so you can prep at your own pace on your own schedule The new fourth edition includes an online study plan that will help you track your progress and learn more about the HiSET Essential Review More than 1 000 practice questions in the book and online with answers and explanations In-book diagnostic pretest to help you identify your strengths and weaknesses so you can set up a personalized study plan Essential skills you'll need to pass each of the 5 subtests Reasoning through Language Arts Reading Language Arts Writing Mathematics Science and Social Studies A full-length practice test for each subject area Expert Guidance Online center with information about getting started and a system for marking chapters complete Expert test-taking strategies to help you face the exam with confidence Kaplan's experts make sure our practice questions and study materials are true to the test We invented test prep Kaplan www.kaptest.com has been helping students for 80 years Our proven strategies have helped legions of students achieve their dreams The HiSET is an alternative to the GED test and the TASC test In some states it is the only acceptable test for earning a high school equivalency diploma In other states it is just 1 test option out of 2 or 3 To find out whether your state will be using the HiSET for high school equivalency tests visit [hiset.ets.org](http://hiset.ets.org) or contact your state's department of education The previous edition of this book was titled HiSET Exam Third Edition **Math Trailblazers 2E G4 Teacher Implementation Guide**, 2003 A research-based NSF-funded K5 mathematics program integrating math science and language arts Includes a Spanish translation of instructional units Getting to the Roots of Mathematics Vocabulary Levels 6-8 Timothy Rasinski, Nancy Padak, Rick Newton, Evangeline Newton, 2014-01-01 Expand your students' content area vocabulary and improve their understanding with this roots-based approach This standards-based resource geared towards secondary grades helps students comprehend informational text on grade-level topics mathematics using the most common Greek and Latin roots Each lesson provides tips on how to introduce the selected roots and offers guided instruction to help easily implement the activities Students will be

able to apply their knowledge of roots associated with specific subject areas into their everyday vocabulary **Everyday Mathematics 4 Grade Teacher's Lesson Guide Volume 2** Max Bell, 2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific **Prentice Hall New York Math: Math B**, 2001 *Advanced General Education Program* Job Corps (U.S.), 1969 **New York Math: Math B**, 2000 Content-Area Vocabulary Mathematics--Prefixes hyper- and super-, sur- Timothy Rasinski, Nancy Padak, 2014-03-01 Make learning mathematics vocabulary fun with a roots approach This lesson geared towards secondary students focuses on root words for mathematics and includes teaching tips and strategies standards based lessons and student activity pages Contemporary Mathematics in Context, 2003 **Content-Area Vocabulary Mathematics--Base meter-, metr-** Timothy Rasinski, Nancy Padak, 2014-03-01 Make learning mathematics vocabulary fun with a roots approach This lesson geared towards secondary students focuses on root words for mathematics and includes teaching tips and strategies standards based lessons and student activity pages **Prentice Hall Informal Geometry** Philip L. Cox, 1992 *Jacaranda Maths Quest 12 General Mathematics Units 3 and 4 for Queensland, 2e* learnON & Print Pauline Holland, Mark Barnes, 2025-09-02 The Jacaranda Maths Quest for Queensland series has been entirely updated for the revised Queensland Senior Syllabus Created by experienced Queensland teachers the new Maths Quest for Queensland series provides all the tools to help your students progress and achieve success Available now in learnON Australia's most powerful online learning platform which brings trusted Jacaranda content to life Visible learning and accessibility Each lesson is mapped directly to the revised Queensland Senior Syllabus ensuring 100% coverage for teachers Lessons clearly labelled complex to differentiate complex content from the revised Queensland Senior Syllabus Each lesson is scaffolded using three question types simple familiar complex familiar and complex unfamiliar to prepare students for assessment Unparalleled assessment support Students access chapter summaries as well as review exercises and unit reviews each with sample responses Students access auto marked quick quizzes in every lesson with fully worked solutions A custom test builder can be filtered by unit differentiation and question type Step by step approach to problem solving and modelling tasks NEW Practical student guide stepping them through how to approach and complete problem solving and modelling tasks Bank of quarantined assessment tasks including teaching advice to assist teachers to create quality problem solving and modelling tasks More than a textbook learnON is everything you need to prepare and deliver effective lessons in one place Engage students with a multimodal learning experience including videos and interactivities Save time assessing with ready made auto marked question sets chapter tests and practice assessments with sample responses Identify and act on areas of weakness early with instant reports and learning

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