Geometry - Putting It All Together

Matthew Park

October 6, 2014

1 From the TJTST 1/2

- ABC is a triangle where AB = 3, BC = 4, AC = 5. D lies on AB and E lies on BC such that the area of ADEC is twice the area of DEB. Compute the smallest possible value of DE.
- Consider △ABC with area 100. Let D, E, F be points on BC, CA, AB respectively such that CD = 1, AE = 2, BF = 3. Let X, Y, Z be the intersections AD∩BE, BE∩CF, CF∩AD respectively. Find the area of △XYZ.
- Consider △ABC with side lengths AB = 7, BC = 9, AC = 12. Construct squares ACDE, ABFG, and BCHI entirely outside of triangle ABC. Let J, K, L be the midpoints of EH, DG, AC respectively. Find the area of triangle JKL.

2 Before We Get Started

Here are some things you hopefully remember from previous years competing in mathematical olympiads or through self-study and lectures:

- Properties of cyclic quads
- Similar triangles, areas, ratios, and how they're useful
- Special theorems on concurrency and collinearity: Menelaus and Ceva
- Circle properties (the Radical Axis Theorem)

Here are some tips to keep in mind when solving geometry problems:

- If you're stuck on a problem, DO NOT JUST STARE AT THE DIAGRAM. (1) label what you are given (2) make conjectures (3) try using various constructions (parallel lines, extensions, reflections, etc.)
- If possible, work both ways when attempting to prove a result.
- Always work with a large, neat diagram (as in legible and easy to label and spot)
- Bring compass and straightedge when tackling complex geometry problem. Often times, having multiple diagrams can also be helpful.

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Elizabeth Waite, Lawrence Leff

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Geometry at Home Carson-Dellosa Publishing Staff, School Specialty Publishing, Carson-Dellosa Publishing, 2004-02-25 Geometry at Home It's Everyplace You Are makes school curriculum come alive Engaging hands on activities help students see the connection between math concepts and their own experiences. The activities are relevant to students daily lives drawing on locations sounds and materials that appear in or around familiar surroundings This book includes six units to provide a variety or math experiences Students will explore geometry at home in the kitchen bathroom neighborhood garage or parking area porch or outdoor area and other locations at home Each unit includes reading comprehension exercises hands on activities and written exercises or patterns This book has been designed to meet National Council of Teachers of Mathematics NCTM standards Activities emphasize key math vocabulary concepts and process skills Students are encouraged to share their answers and compare their methods and strategies The activities incorporate reading comprehension with math concepts such as two and three dimensional figures location and position coordinate geometry transformation and symmetry and visualization and spatial reasoning Plus each unit provides hands on learning through Geometry: The Easy Way Elizabeth Waite, Lawrence Leff, 2019-09-03 A self teaching cutting coloring mazes and more guide for students Geometry 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 Geometry The Easy Way covers Examples Exercises and Solutions Drawings Graphs and Tables Practice Questions And more **Dr. Math Presents More Geometry** The Math Forum, 2005-01-21 You too can understand geometry just ask Dr Math Are things starting to get tougher in geometry class Don t panic Dr Math the popular online math resource is here to help you figure out even the trickiest of your geometry problems Students just like you have been turning to Dr Math for years asking questions about math problems and the math doctors at The Math Forum have helped them find the answers with lots of clear explanations and helpful hints Now with Dr Math Presents More Geometry you ll learn just what it takes to succeed in this subject You ll find the answers to dozens of real questions from students in a typical geometry class You ll also find plenty of hints and shortcuts for using coordinate geometry finding angle relationships and working with circles Pretty soon everything from the Pythagorean theorem to logic and proofs will make more sense Plus you ll get plenty of tips for working with all kinds of real life problems You won t find a better explanation of high school geometry anywhere **Discovering Geometry** Michael Serra.2007-02-27 **Getting Into Geometry** AIMS Education Foundation, 2010 **Geometry Quick Starts Workbook** Vicky Shiotsu, 2019-01-12 The Geometry Quick Starts workbook transitions from the most basic line to more complex geometric forms such as angles polygons symmetry transformations perimeter area volume and more Matching true false short answer labeling and drawing activities help students practice and review geometry concepts Each page features two to four quick starts that can be cut apart and used separately The entire page may also be used as a whole class or individual assignment The Quick Starts Series provides students in grades 4 through 8 with quick review activities in science math language arts and social studies The activities provide students with a quick start for the day s lesson and help students build and maintain a powerful domain specific vocabulary Each book is correlated to current state national and provincial standards Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators this product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character

Homework Helpers: Geometry Carolyn C. Wheater, 2007-04-25 This new title in the Homework Helpers series will reinforce mathematical foundations and bolster students confidence in geometry. The concepts are explained in everyday language before the examples are worked Good habits such as checking your answers after every problem are reinforced There are practice problems throughout the book and the answers to all of the practice problems are included The problems are solved clearly and systematically with step by step instructions provided Particular attention is placed on topics that students traditionally struggle with the most While this book could be used to supplement standard geometry textbooks it could also be used by college students or adult learners to refresh long forgotten concepts and skills Homework Helpers Geometry includes all the topics that are traditionally covered in a high school geometry course including Parallel lines Congruent lines Quadrilaterals and other polygons Similarity and special triangles Right triangle trigonometry Circles Area Discovering Geometry Michael Serra, 2003 volume and solids **Geometry** Herman Rosenberg, Donovan A. Johnson, 1968 Hands-On Geometry Christopher M. Freeman, 2010-01-15 Hands On Geometry teaches students to draw accurate constructions of equilateral triangles squares and regular hexagons octagons and dodecagons construct kites and use their diagonals to construct altitudes angle bisectors perpendicular bisectors and the inscribed and circumscribed circles of any triangle construct perpendicular lines and rectangles parallel lines and parallelograms and construct a regular pentagon and a golden rectangle Discovering Geometry Michael Serra, 2008 **Geometry** Holt Rinehart & Winston, 2001 Discovering Geometry Michael Serra, 2003-03-01 A Blueprint for Geometry Brad S. Fulton, Bill Lombard, 1997-02 Students become junior architects using geometry skills particularly measurement and scale drawing in Patty Paper Geometry Michael Serra, 1994 **Shaping Mathematics** Margaret Laidlaw, Peter Parr, 1973 this project Illustrative Mathematics, 2021 Teacher guide 3 vols Student workbook 3 vols Teacher resource guide 1 vol Geometry Made Easy Common Core Edition Topical Review Book Company, 1914-09-17 A quick how to do it reference quide redcommended for students studying the new Common Core standards for Geometry Loaded with lots of examples definitions and correlations Geometry Connections Leslie Dietiker, 2006 **Geometry** James S. Tanton, 2017-07-21

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