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Date: _____

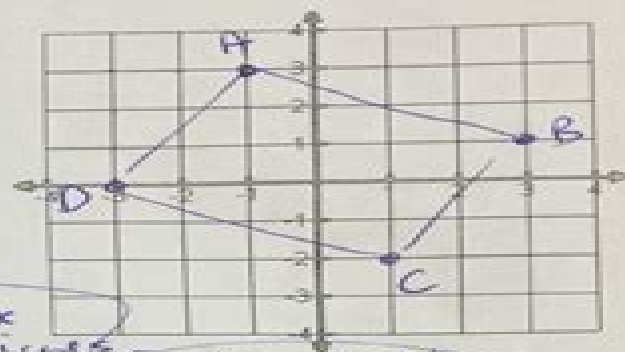
The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you must show work.

1. Quadrilateral 1: Plot and label each point. A(-1, 3), B(3, 1), C(1, -2), and D(-3, 0).

2. Definition: A parallelogram is a quadrilateral with two pair of opposite sides that are parallel. Using the definition of a parallelogram, prove that Quadrilateral 1 is a parallelogram. (Hint: Find the slopes of all the sides)

$$\begin{aligned} AB &= -2/4 = -1/2 \\ BC &= 3/2 \\ CD &= -2/4 = -1/2 \\ AD &= 3/2 \end{aligned}$$

opposite sides $\parallel$



3. Definition: A rectangle is a parallelogram with four right angles. Using the definition of a rectangle, prove that Quadrilateral 1 is NOT a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

consecutive/adjacent sides are NOT opposite reciprocals

4. Definition: A rectangle is a parallelogram with congruent diagonals. Using the definition of a rectangle, prove that Quadrilateral 1 is NOT a rectangle. (Hint: Find the lengths of the diagonals, what do you notice?)

$$\begin{aligned} AC &= 5.4 \\ BD &= 6.1 \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{(5)^2 + (3)^2} = \sqrt{34} \\ BD &= \sqrt{(6)^2 + (1)^2} = \sqrt{37} \end{aligned}$$

5. Quadrilateral 2: Plot and label each point. A(-3, -3), B(1, 1), C(5, -3), and D(1, -7).

6. Definition: A parallelogram is a quadrilateral with two pairs of opposite sides that are parallel. Using the definition of a parallelogram, prove that Quadrilateral 2 is a parallelogram. (Hint: Find the slopes of all the sides)

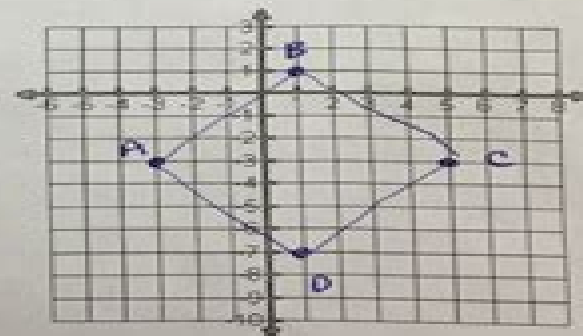
$$\begin{aligned} AB &= 4/4 = 1 \\ BC &= -4/4 = -1 \\ CD &= 4/4 = 1 \\ AD &= -4/4 = -1 \end{aligned}$$

7. Definition: A rectangle is a parallelogram with 4 right angles. Using the definition, prove that Quadrilateral 2 is a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

opposite reciprocal slopes = $\perp$ = 90°

8. Definition: A rhombus is a parallelogram with all sides congruent. Using the definition, prove that Quadrilateral 2 is a rhombus. (Hint: Find the length or distance of each side.)

$$\begin{aligned} AB &= 5.7 \\ BC &= 5.7 \\ CD &= 5.7 \\ AD &= 5.7 \end{aligned} \quad \left. \begin{array}{l} AB \\ BC \\ CD \\ AD \end{array} \right\} \text{All } \approx$$



Answers For Coordinate Algebra 6

John J. Diehl



Answers For Coordinate Algebra 6 :

Beginners' algebra. [With] Answers M S. David,1903 Solutions Teacher Planning Pack Core Book 7 David Baker,2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format **Solutions Teacher Planning Pack Support Book 7** David Baker,2005 The only AQA GCSE maths series to be exclusively endorsed and approved by AQA AQA Mathematics for GCSE blends print and electronic resources to provide you with complete reassurance that you have everything you need to deliver the revised 2006 GCSE Mathematics specification **Great Graphs, Charts and Tables That Build Real-Life Math Skills** Denise Kiernan,2001-08 Presents over twenty reproducible activity sheets designed to help students in grades four through eight hone their skills in interpreting and creating graphs charts maps and tables ACT Math & Science Prep Kaplan Test Prep,2016-02-02 At head of title on cover and spine Kaplan **Private Tutor for Sat Math Success 2006** Gulden Akinci,2006-05-01 SAT Math Test Preparation through innovative Private Tutor Method A customized fast complete effective and affordable method to increase SAT math scores that has been tested successfully on all levels of high school students Solutions Teacher Planning Pack Extension Book 7 David Baker,2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format **Student's Solutions Manual Intermediate Algebra** Judith A. Penna,Marvin L. Bittinger,David J. Ellenbogen,2005-08 Technical Algebra with Applications Carole E. Goodson,Susan L. Miertschin,1985

Computational Aspects of Polynomial Identities Alexei Kanel-Belov,Yakov Karasik,Louis Halle Rowen,2015-10-22 Computational Aspects of Polynomial Identities Volume I Kemer's Theorems 2nd Edition presents the underlying ideas in recent polynomial identity PI theory and demonstrates the validity of the proofs of PI theorems This edition gives all the details involved in Kemer's proof of Specht's conjecture for affine PI algebras in characteristic 0 The **Intermediate Algebra** Dennis T. Christy,1994 This book takes a concrete approach to mathematics as opposed to a conceptual approach What separates this text from the competition is how much emphasis is placed on problem solving including relevant applications and the extensive learning aids incorporated to help the students Introduction to Quantum Groups George Lusztig,2010-10-27 The quantum groups discussed in this book are the quantized enveloping algebras introduced by Drinfeld and Jimbo in 1985 or variations thereof The theory of quantum groups has led to a new extremely rigid structure in which the objects of the theory are provided with canonical basis with rather remarkable properties This book will be of interest to mathematicians working in the representation theory of Lie groups and Lie algebras knot theorists and to theoretical physicists and graduate students Since large parts of the book are independent of the theory of perverse sheaves the book could also be used as a text book *Math Advantage, Grade 8* Grace M. Burton,Harcourt Brace,1998-05-22 **The British National Bibliography** Arthur James Wells,1994 **Intermediate Algebra Graph Aie Sup** Martin-gay,2004-04 SRA

Math Stephen S. Willoughby, Carl Bereiter, Peter Hilton, Joseph H. Rubinstein, Marlene Scardamalia, 2002-07 *McGraw-Hill Education SAT Subject Test Math Level 2, Fifth Edition* John J. Diehl, 2018-11-23 We Will Help You Get Your Best Score With more than 125 years of experience in education McGraw Hill Education is the name you trust to deliver results This MHE guide is the most comprehensive and relevant SAT Subject Test prep tool on the market This edition provides 9 full length practice tests with thorough answer explanations A comprehensive review of all Math Level 2 concepts essential to success on the SAT Subject Test An extensive overview of the format of the test based on the most recent SAT Math Level 2 exams Unique test taking strategies and tips recommended by teachers to help you raise your score A customizable study plan to help you maximize the time you have to prepare TOP 30 LIST The book includes a description of the 30 concepts most crucial to master before you take the Subject Test in Math Level 2 TEST TAKING STRATEGIES Learn unique tips developed by teachers to help you avoid the test maker's traps McGraw-Hill Education SAT Subject Test Math Level 2 4th Ed. John J. Diehl, 2016-01-01 Prepare for the SAT Math Level 2 test with the experts you trust This step by step guide will give you the knowledge and tools you need to succeed on this challenging exam You'll get essential skill building techniques and strategies created and classroom tested by high school math teachers and curriculum developers You'll also get full length practice tests hundreds of sample questions and all the facts about the current exam everything you need to do your best on test day Features 9 full length sample tests in the latest test format More than 450 practice questions Step by step review of all topics covered on the exam Teacher recommended strategies to raise your score Special features SAT Math Level 2 at a Glance Top Items to Remember on Test Day and more Glossary of tested math terms and formulas About the Authors John J Diehl is Chair of the Mathematics Department at Hinsdale Central High School in Hinsdale IL Christine E Joyce is a widely published test prep author and educator Addison-Wesley Access to Algebra and Geometry Phares G. O'Daffer, 1995
Mathematical Reviews ,2008

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