

Name: _____

Date: _____

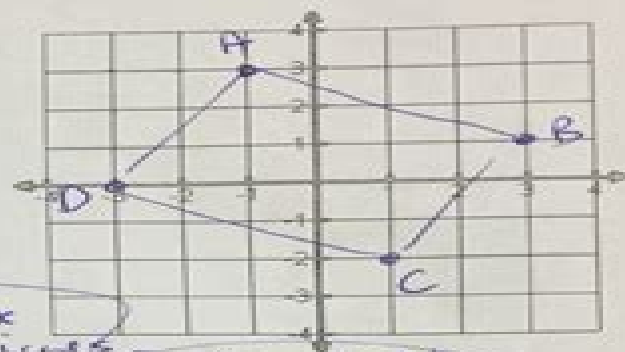
The goal of this assignment is to use the distance and slope formulas to prove statements about geometric figures on the coordinate plane. Since the purpose is to prove a statement, you must show work.

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.)

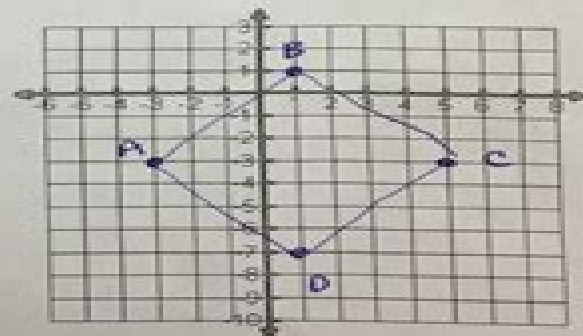
$$\begin{aligned} AB &= 4/4 = 1 \\ BC &= -4/4 = -1 \\ CD &= 4/4 = 1 \\ AD &= -4/4 = -1 \end{aligned}$$

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

S Ben Porath



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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
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