

EXERCISE 5.1

PAGE: 85

1. Which of the following statements are true and which are false? Give reasons for your answers.

- (i) Only one line can pass through a single point.
- (ii) There are an infinite number of lines which pass through two distinct points.
- (iii) A terminated line can be produced indefinitely on both the sides.
- (iv) If two circles are equal, then their radii are equal.
- (v) In Fig. 5.9, if $AB = PQ$ and $PQ = XY$, then $AB = XY$.



Fig. 5.9

Solution:

(i) False

There can be infinite number of lines that can be drawn through a single point. Hence, the statement mentioned is False

(ii) False

Through two distinct points, there can be only one line that can be drawn. Hence, the statement mentioned is False

(iii) True

A line that is terminated can be indefinitely produced on both sides as a line can be extended on both its sides infinitely. Hence, the statement mentioned is True.

(iv) True

The radii of two circles are equal when the two circles are equal. The circumference and the centre of both the circles coincide; and thus, the radius of the two circles should be equal. Hence, the statement mentioned is True.

(v) True

According to Euclid's 1st axiom- "Things which are equal to the same thing are also equal to one another". Hence, the statement mentioned is True.

Chapter 9 Geometry

**Thirumalaisamy P.
Velavancorresponding**



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CliffsNotes ACT B. T. P. S. Testing, BTPS Testing, 2013-06-04 A fully revised edition with brand new content and four practice tests Includes four full practice tests with details answers and explanations Fully revised with brand new content unlike typical revised editions of test prep titles Features subject review materials for every discipline and an extensive math review

EBOOK: College Algebra with Trigonometry Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text

Euclidean and Non-Euclidean Geometries Marvin J. Greenberg, 1993-07-15 This classic text provides overview of both classic and hyperbolic geometries placing the work of key mathematicians philosophers in historical context Coverage includes geometric transformations models of the hyperbolic planes and pseudospheres

Math Smart II Marcia Lerner, 1997 Getting a Grip on Algebra Geometry Trigonometry Contains hundreds of practice exercises with worked out solutions Includes a complete glossary of mathematical terms

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Table of Contents Chapter 9 Geometry

1. Understanding the eBook Chapter 9 Geometry
 - The Rise of Digital Reading Chapter 9 Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Geometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 9 Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Geometry

- Personalized Recommendations
- Chapter 9 Geometry User Reviews and Ratings
- Chapter 9 Geometry and Bestseller Lists
- 5. Accessing Chapter 9 Geometry Free and Paid eBooks
 - Chapter 9 Geometry Public Domain eBooks
 - Chapter 9 Geometry eBook Subscription Services
 - Chapter 9 Geometry Budget-Friendly Options
- 6. Navigating Chapter 9 Geometry eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 9 Geometry Compatibility with Devices
 - Chapter 9 Geometry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 9 Geometry
 - Highlighting and Note-Taking Chapter 9 Geometry
 - Interactive Elements Chapter 9 Geometry
- 8. Staying Engaged with Chapter 9 Geometry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 9 Geometry
- 9. Balancing eBooks and Physical Books Chapter 9 Geometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 9 Geometry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 9 Geometry
 - Setting Reading Goals Chapter 9 Geometry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 9 Geometry

- Fact-Checking eBook Content of Chapter 9 Geometry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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