

10-7 Locus Problems

Objective: Describe the locus that satisfies more than one given condition.

The plural of locus is loci. In the following problems, we are given two or more conditions and must describe the locus that satisfies all of these conditions. Usually, this locus is the intersection of the loci that satisfy each condition.

Example

Given two points, A and B . What is the locus of points in a plane containing A and B 1 cm from A and 2 cm from B ?

Solution

A and B mean any two points, so you need to consider all possible placements with A and B in the same plane.

Analyze the problem one condition at a time.

The locus of points 1 cm from A is $\odot A$ with radius 1 cm.

The locus of points 2 cm from B is $\odot B$ with radius 2 cm.

The locus of points satisfying both conditions is the possible intersections of the circles. There are three possibilities for the locus, depending on the distance between points A and B .



$1 \text{ cm} < AB < 3 \text{ cm}$

The circles intersect in 2 points.

The locus is 2 points, 1 point, or 0 points.



$AB = 3 \text{ cm}$

The circles intersect in 1 point.



$AB = 1 \text{ cm}$

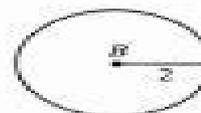


$AB > 3 \text{ cm}$

The circles do not intersect.



$AB < 1 \text{ cm}$



Exercise 1 refers to locus in a plane.

1. Consider the following problem: Given perpendicular lines j and k , what is the locus of points 2 cm from j and 3 cm from k ?
 - a. The locus of points 2 cm from j is ?
 - b. The locus of points 3 cm from k is ?
 - c. Draw a diagram to show the points that satisfy conditions (a) and (b).
 - d. Give a one-sentence solution to the problem.

Locus Problems With Answers

Arthur Cayley



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Table of Contents Locus Problems With Answers

1. Understanding the eBook Locus Problems With Answers
 - The Rise of Digital Reading Locus Problems With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Locus Problems With Answers
 - 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 Locus Problems With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Locus Problems With Answers
 - Personalized Recommendations
 - Locus Problems With Answers User Reviews and Ratings
 - Locus Problems With Answers and Bestseller Lists
5. Accessing Locus Problems With Answers Free and Paid eBooks
 - Locus Problems With Answers Public Domain eBooks
 - Locus Problems With Answers eBook Subscription Services
 - Locus Problems With Answers Budget-Friendly Options

6. Navigating Locus Problems With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Locus Problems With Answers Compatibility with Devices
 - Locus Problems With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Locus Problems With Answers
 - Highlighting and Note-Taking Locus Problems With Answers
 - Interactive Elements Locus Problems With Answers
8. Staying Engaged with Locus Problems With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Locus Problems With Answers
9. Balancing eBooks and Physical Books Locus Problems With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Locus Problems With Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Locus Problems With Answers
 - Setting Reading Goals Locus Problems With Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Locus Problems With Answers
 - Fact-Checking eBook Content of Locus Problems With Answers
 - 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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