

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

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Locus Problems With Answers:

Mathematical Questions and Solutions, 1885 *Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times"*, 1873 Mathematical Questions and Solutions, from the "Educational Times" W. J. C. Miller, 1891 **Mathematical Questions and Solutions, from "The Educational Times", with Many Papers and Solutions in Addition to Those Published in "The Educational Times" ...**, 1874 *Mathematical Questions and Solutions, from the "Educational Times."*, 1900 **The Teaching of Geometry in Schools** Mathematical Association, 1923 The Elements of Euclid, books i and ii, by R. Lachlan EUCLID., 1896 *Manual and Key to Plane Geometry* William Weller Strader, Lawrence D. Rhodes, 1929 **Bird's Higher Engineering Mathematics** John Bird, 2021-03-25 Higher Engineering Mathematics has helped thousands of students to succeed in their exams by developing problem solving skills It is supported by over 600 practical engineering examples and applications which relate theory to practice The extensive and thorough topic coverage makes this a solid text for undergraduate and upper level vocational courses Its companion website provides resources for both students and lecturers including lists of essential formulae and full solutions to all 2 000 further questions contained in the 277 practice exercises and illustrations and answers to revision tests for adopting course instructors *Plane Geometry* William Betz, Harrison Emmett Webb, 1912 **Geometry For Dummies** Mark Ryan, 2016-06-14 Hit the geometry wall Get up and running with this no nonsense guide Does the thought of geometry make you jittery You re not alone Fortunately this down to earth guide helps you approach it from a new angle making it easier than ever to conquer your fears and score your highest in geometry From getting started with geometry basics to making friends with lines and angles you ll be proving triangles congruent calculating circumference using formulas and serving up pi in no time Geometry is a subject full of mathematical richness and beauty But it s a subject that bewilders many students because it s so unlike the math they ve done before it requires the use of deductive logic in formal proofs If you re having a hard time wrapping your mind around what that even means you ve come to the right place Inside you ll find out how a proof s chain of logic works and even discover some secrets for getting past rough spots along the way You don t have to be a math genius to grasp geometry and this book helps you get un stumped in a hurry Find out how to decode complex geometry proofs Learn to reason deductively and inductively Make sense of angles arcs area and more Improve your chances of scoring higher in your geometry class There s no reason to let your nerves get jangled over geometry your understanding will take new shape with the help of *Geometry For Dummies* Machinery and Production Engineering, 1918 The Collected Mathematical Papers Arthur Cayley (mathématicien), 1892 *The Collected Mathematical Papers of Arthur Cayley* Arthur Cayley, 1892 Higher Engineering Mathematics, 7th ed John Bird, 2014-04-11 A practical introduction to the core mathematics principles required at higher engineering level John Bird s approach to mathematics based on numerous worked examples and interactive problems is ideal for vocational students that require an advanced textbook

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