

## 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  $C\cap A$  with radius 1 cm.

The locus of points 2 cm from  $B$  is  $C\cap B$  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.

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*University of Michigan Official Publication*, 1955    *Problems from Murray Klamkin* Murray S. Klamkin, 2009-04-02 A collection of problems proposed by Murray Klamkin over his career. It contains the quickies problems with quick and neat solutions he proposed in *Crux Mathematicorum* his longer problems and also problems which were proposed in tribute to him after he died. Solutions are provided    **Mathematica Scandinavica**, 1961    **Senior Mathematics** Harl Roy Douglass, Lucien Blair Kinney, 1945    **Math Horizons**, 1996    **Geometry, Grade 10 Practice Workbook with Examples** Holt McDougal, 2000    *Plane Geometry* John Wesley Young, Albert John Schwartz, 1915    *Learning Directory*, 1970    **General Catalog Issue** Pennsylvania State College, Pennsylvania State University, 1912    **The Mathematics Teacher**, 1952    **Geometry** Nichols, 1991 A high school textbook presenting the fundamentals of geometry  
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