

Geometry
Unit: Introduction to Proof
Section: Introduction

Matching: Constructing an Angle Bisector

Directions: Choose the correct step.

1. Step 1

2. Step 2

3. Step 3

a. Place the compass at A and draw two arcs with the same radius used in Step 1. Label the points of intersection of arcs M and J.

b. Place a compass at point B and draw two arcs with arbitrary radius, one above AB and the other below such that their radii are far shorter than AB.

c. Using a straightedge connect M and J. JM intersects AB at P. P is the midpoint of AB. Points J, P, and M are collinear. Points A, P, and B are also collinear.

Answers:

1. b

2. a

3. c