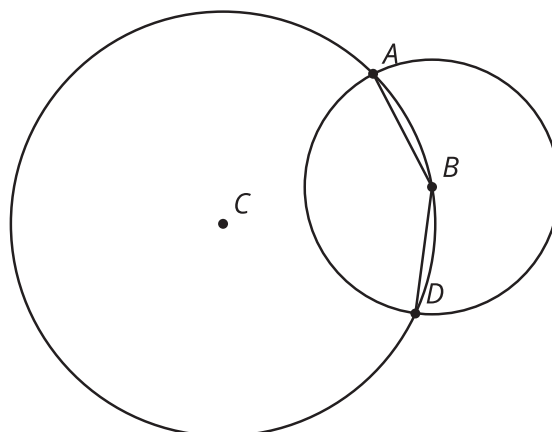
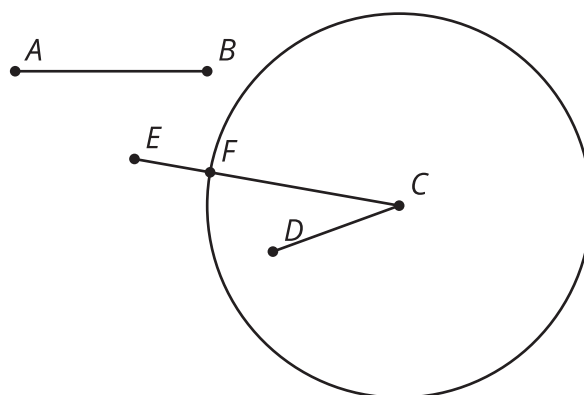


Lesson 1 Practice Problems

1. Here is a diagram of a straightedge and compass construction. C is the center of one circle, and B is the center of the other. Explain why the length of segment BD is the same as the length of segment AB .

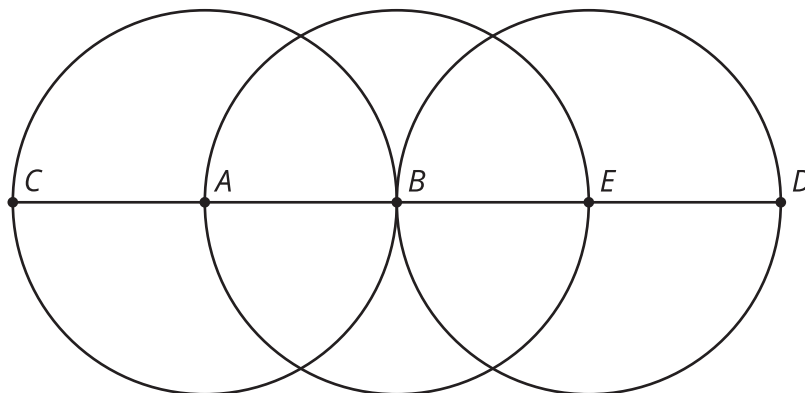


2. Clare used a compass to make a circle with radius the same length as segment AB . She labeled the center C . Which statement is true?

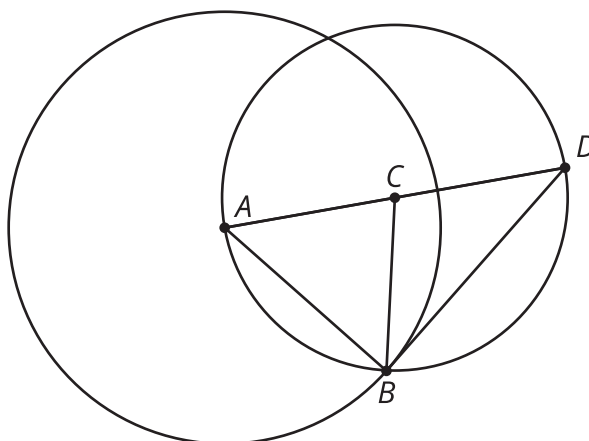


- A. $AB > CD$
- B. $AB = CD$
- C. $AB > CE$
- D. $AB = CE$

3. The diagram was constructed with straightedge and compass tools. Points A , B , C , D , and E are all on line segment CD . Name a line segment that is half the length of CD . Explain how you know.



4. This diagram was constructed with straightedge and compass tools. A is the center of one circle, and C is the center of the other.



- The 2 circles intersect at point B . Label the other intersection point E .
- How does the length of segment CE compare to the length of segment AD ?