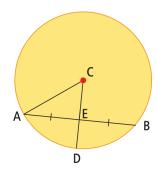
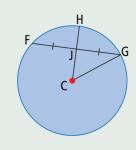
### **Example 1: Bisect a Chord With a Radius**

Radius CD bisects chord AB. Chord AB measures 8 cm. The radius of the circle is 5 cm. What is the length of line segment CE? Justify your solution.



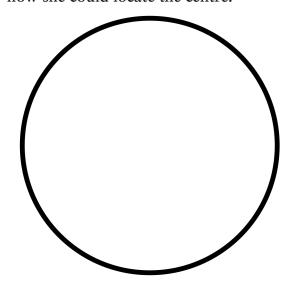
#### **Show You Know**

Radius CH bisects chord FG. Chord FG measures 12 cm. The radius of the circle measures 10 cm. What is the length of CJ?



## **Example 2: Use Chord Properties to Solve Problems**

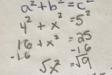
Louise would like to drill a hole in the centre of a circular table in order to insert a sun umbrella. Use a diagram to explain how she could locate the centre.

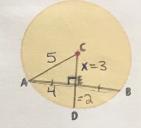




# Example 1: Bisect a Chord With a Radius

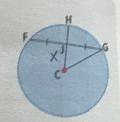
Radius CD bisects chord AB. Chord AB measures 8 cm. The radius of the circle is 5 cm. What is the length of line segment CE? Justify your solution.





### Show You Know

Radius CH bisects chord FG. Chord FG measures 12 cm. The radius of the circle measures 10 cm. What is the length of CJ?



## **Example 2: Use Chord Properties to Solve Problems**

