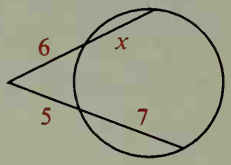
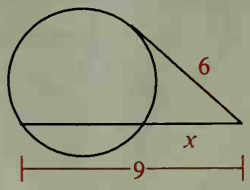
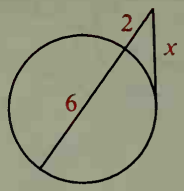
Chords, secants, and tangents are shown. State the equation you would use to find the value of x. Then solve for x.

4. 

5. 

6. 

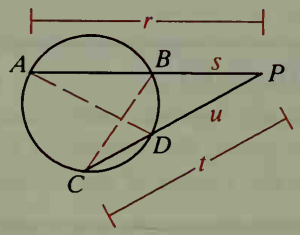
7. Supply reasons to complete the proof of Theorem 9-12.

Given: $\overline{PA}$ and $\overline{PC}$ drawn to the circle from point P

Prove: $r \cdot s = t \cdot u$

Proof:

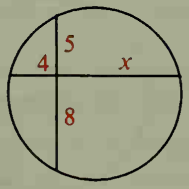
1. Draw chords $\overline{AD}$ and $\overline{BC}$.
2. $\angle A \cong \angle C$
3. $\angle P \cong \angle P$
4. $\triangle APD \sim \triangle CPB$
5. $\frac{r}{t} = \frac{u}{s}$
6. $r \cdot s = t \cdot u$

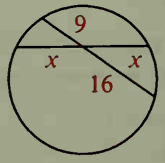


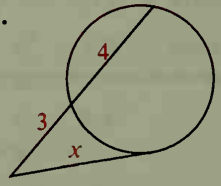
Written Exercises

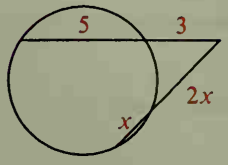
Chords, secants, and tangents are shown. Find the value of x.

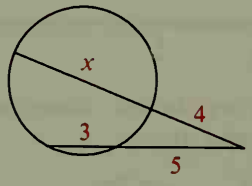
A

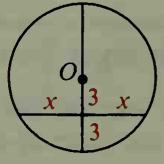
1. 

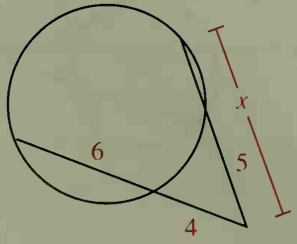
2. 

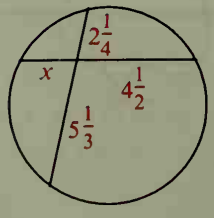
3. 

4. 

5. 

6. 

7. 

8. 

9.