## 12-1 Solve It!



Be sure your segments touch the circle at only one point.

Getting Ready!

Draw a diagram like the one at the right. Each ray from Point $A$ touches the circle in only one place
no matter how far it extends. Measure $\overline{A B}$ and $\overline{A C}$.
Repeat the procedure with a point farther away
from the circle. Consider any two rays with a
common endpoint outside the circle. Make a
conjecture about the lengths of the two segments
formed when the rays touch the circle.

## 12-1 Lesson Quiz

1. Do you UNDERSTAND? $\overline{A D}$ and $\overline{A B}$ are tangent to $\odot C$. What is the value of $x$ ?

2. What is the radius of $\odot F$ ?

3. $\overline{F T}$ is tangent to $\odot P$ at $T$. What is $P T$ ?


## Answers

## Solve It!

The two segments have the

## Lesson Quiz

same length.

1. 23
2. 8
3. 15
