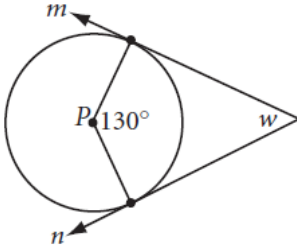


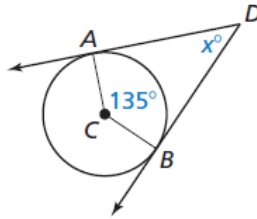
9.5 ANGLES RELATED TO A CIRCLE

The two rays (shown) are tangent to the circle. Find the value of the variable.

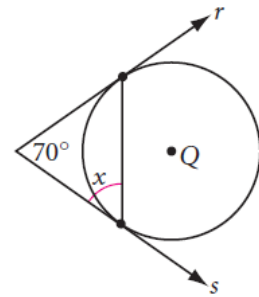
1. Find w



2. Find x

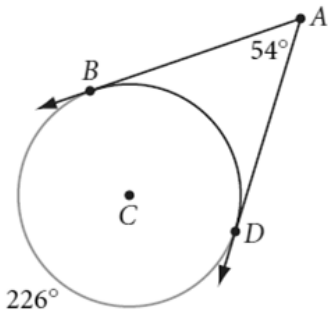


3. Find x

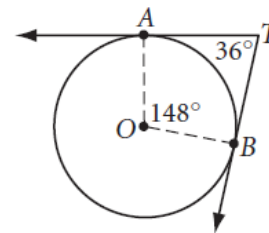


Identify and explain what is wrong with the picture.

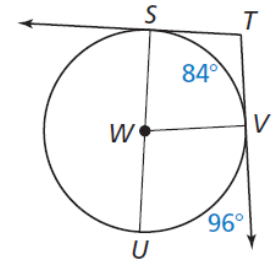
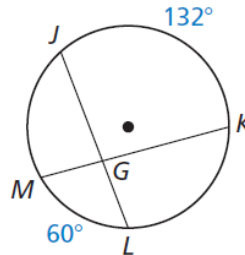
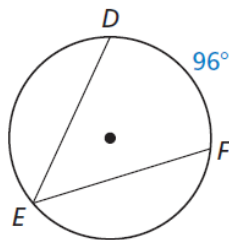
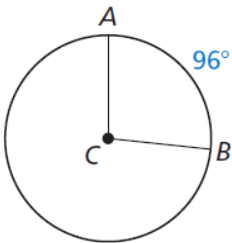
4. \overline{AB} & \overline{AD} are tangent to $\odot C$.



5. \overline{TA} & \overline{TB} are tangent to $\odot O$.



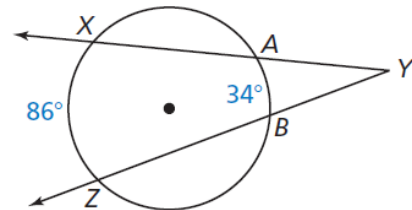
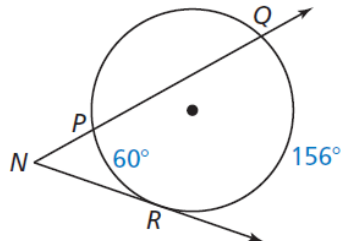
6. Which angles have the same measure as $\angle ACB$? Select ALL that apply.



$\angle DEF$ $\angle JGK$ $\angle KGL$

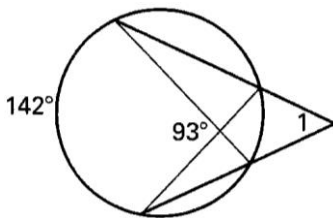
$\angle LGM$ $\angle QNR$ $\angle STV$

$\angle SWV$ $\angle VWU$ $\angle XYZ$

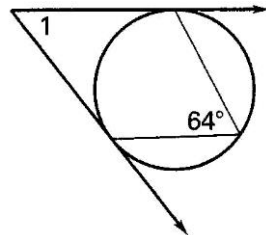


Find $m\angle 1$. (These involve multiple steps.)

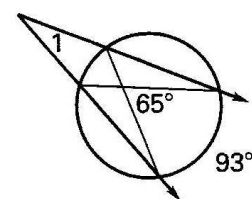
7.

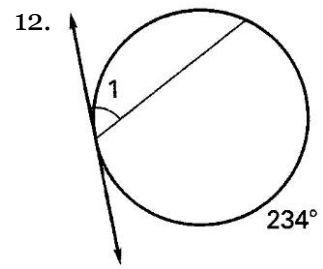
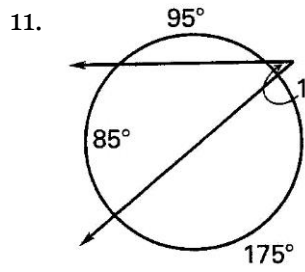
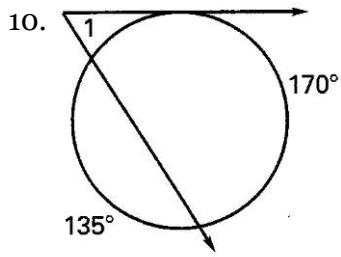


8.



9.





Set up and solve an equation to find the value of x .

