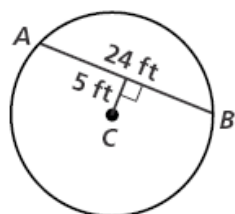


Name: _____

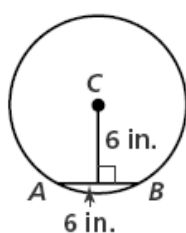
Arcs and Chords

1) Find the radius

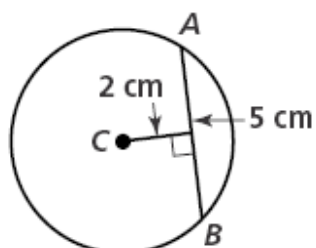
1)



2)

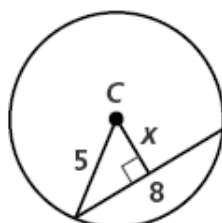


3)

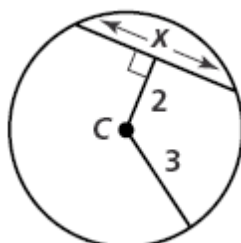


2) Find the value of x to the nearest tenth.

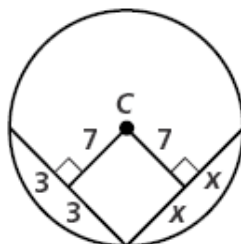
1)



2)



3)

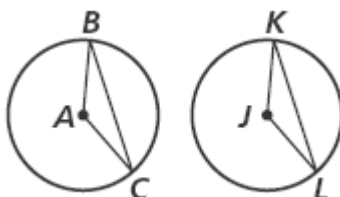


3) List what you can conclude from each diagram.

1) $\triangle Q \cong \triangle T, PR \cong SU$



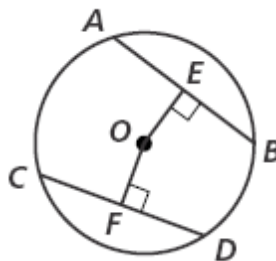
2) $\triangle A \cong \triangle J, \overline{BC} \cong \overline{KL}$



4) Write a two-column proof

Given: $\odot O, \overline{OE} \perp \overline{AB}, \overline{OF} \perp \overline{CD}, AB = CD$

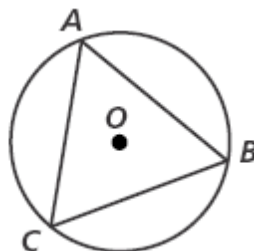
Prove: $OE = OF$



5) Write a two-column proof

Given: $\odot O, m\widehat{AB} = m\widehat{BC} = m\widehat{CA}$

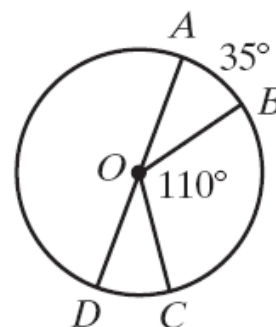
Prove: $m\angle ABC = m\angle BCA = m\angle CAB$



6) In circle O, $m\widehat{AB} = 35, m\angle BOC = 110$, and \overline{AOD} is a diameter.

1) Find $m\widehat{BC}$ and $m\widehat{CD}$

2) Explain why $AB = CD$



7) In circle with center O, $m\widehat{AB} = 90^\circ$ and $OA = 6$

1) Prove that $\triangle AOB$ is a right triangle

2) Find AB

3) Find OC, the apothem to \overline{AB}

