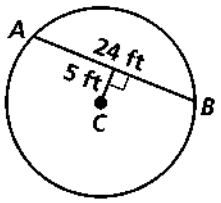
Name _____ Class _____ Date _____

Practice 12-2

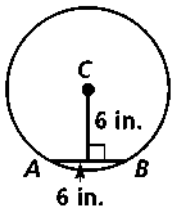
Chords and Arcs

Find the radius and $m\widehat{AB}$.

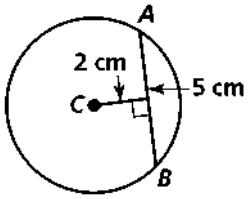
1.



2.

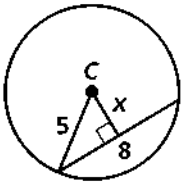


3.

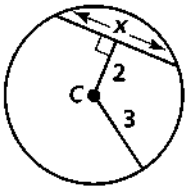


Find the value of x to the nearest tenth.

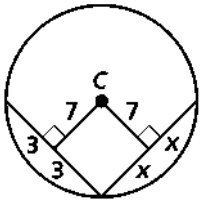
4.



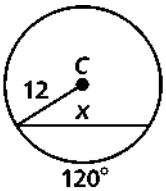
5.



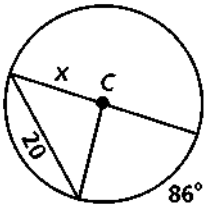
6.



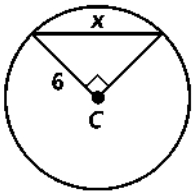
7.



8.

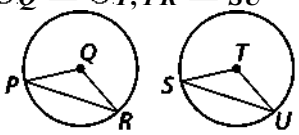


9.

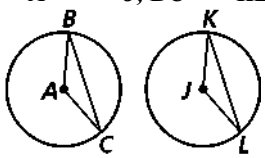


List what you can conclude from each diagram.

10. $\odot Q \cong \odot T$, $\widehat{PR} \cong \widehat{SU}$



11. $\odot A \cong \odot J$, $\overline{BC} \cong \overline{KL}$

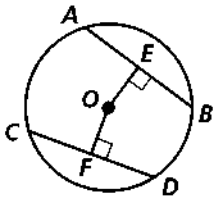


Write a two-column proof, a paragraph proof, or a flow proof.

12. Prove Theorem 11-5, part (2).

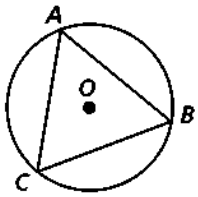
Given: $\odot O$, $OE \perp AB$, $OF \perp CD$, $AB = CD$

Prove: $OE = OF$



13. Given: $\odot O$ with $m\widehat{AB} = m\widehat{BC} = m\widehat{CA}$

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



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