

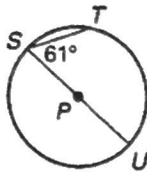
1. Multiple Choice In the figure shown, which statement is true?

- A. $\angle SPR \cong \angle PSQ$
- B. $\angle RQS \cong \angle RPS$
- C. $\angle RPS \cong \angle PRQ$
- D. $\angle PRQ \cong \angle SQR$

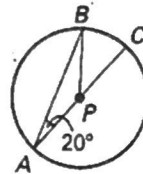


Find the measure of the indicated angle or arc in $\odot P$.

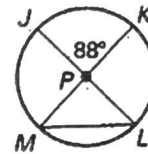
2. $m\widehat{ST}$



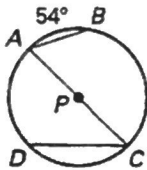
3. $m\widehat{AB}$



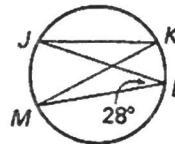
4. $m\angle JLM$



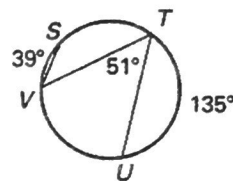
5. $m\angle A$



6. $m\angle K$

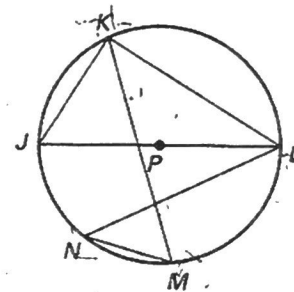


7. $m\widehat{VST}$



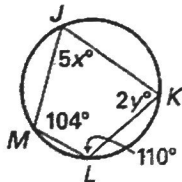
Find the measure of the indicated angle or arc in $\odot P$, given $m\widehat{LM} = 84^\circ$ and $m\widehat{KN} = 116^\circ$.

- 8. $m\angle JKL$
- 9. $m\angle MKL$
- 10. $m\angle KMN$
- 11. $m\angle JKM$
- 12. $m\angle KLN$
- 13. $m\angle LNM$
- 14. $m\widehat{MJ}$
- 15. $m\widehat{LKJ}$

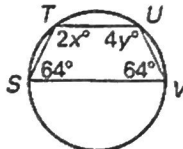


In Exercises 16–18, find the values of the variables.

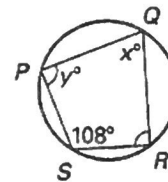
16.



17.

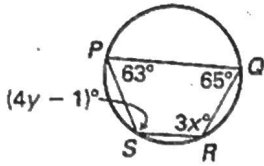


18.

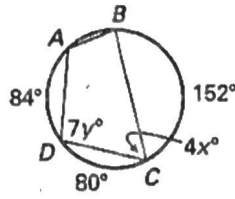


In Exercises 19–21, find the values of the variables.

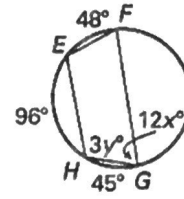
19.



20.



21.



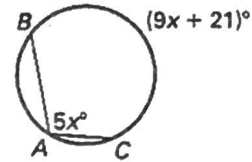
22. Multiple Choice What is the value of x in the figure shown?

A. 7

B. 12

C. 16

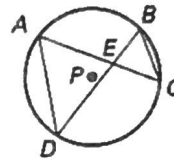
D. 21



23. Proof Copy and complete the proof.

GIVEN: $\odot P$

PROVE: $\triangle AED \sim \triangle BEC$

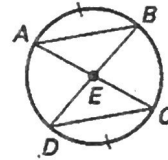


Statements	Reasons
1. $\odot P$	1. Given
2. <u>?</u>	2. Vertical Angles Theorem (Two angles are vertical angles if their sides form two pairs of opposite rays. The Vertical Angles Theorem states that vertical angles are congruent.)
3. $\angle CAD \cong \angle DBC$	3. <u>?</u>
4. $\triangle AED \sim \triangle BEC$	4. <u>?</u>

24. Proof Copy and complete the proof.

GIVEN: $\widehat{AB} \cong \widehat{CD}$

PROVE: $\triangle ABE \cong \triangle DCE$



Statements	Reasons
1. $\widehat{AB} \cong \widehat{CD}$	1. <u>?</u>
2. <u>?</u>	2. Theorem 6.5
3. <u>?</u>	3. Vertical Angles Theorem (Two angles are vertical angles if their sides form two pairs of opposite rays. The Vertical Angles Theorem states that vertical angles are congruent.)
4. $\angle BDC \cong \angle CAB$	4. <u>?</u>
5. $\triangle ABE \cong \triangle DCE$	5. <u>?</u>