

LESSON 10.4 **Practice B**
For use with pages 671–679

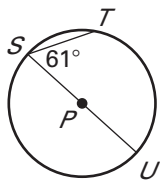
1. **Multiple Choice** In the figure shown, which statement is true?

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

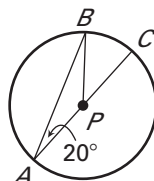


Find the measure of the indicated angle or arc in $\odot P$.

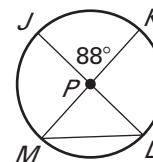
2. $m\widehat{ST}$



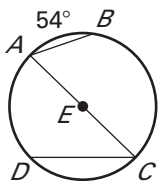
3. $m\widehat{AB}$



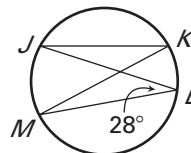
4. $m\angle JLM$



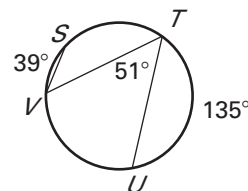
5. $m\angle A$



6. $m\angle K$

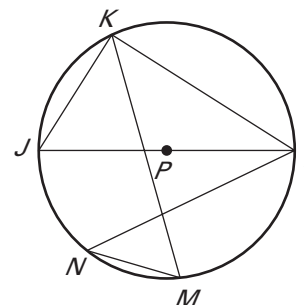


7. $m\widehat{VST}$



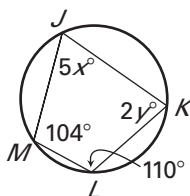
Find the measure of the indicated angle or arc in $\odot P$, given $m\widehat{LM} = 84^\circ$ and $m\widehat{KN} = 116^\circ$.

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. $m\widehat{LKJ}$

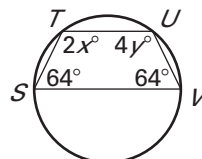


Find the values of the variables.

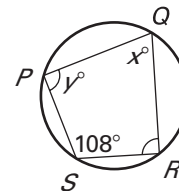
16.



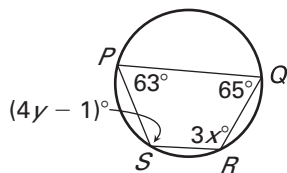
17.



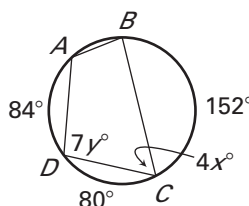
18.



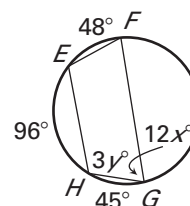
19.



20.



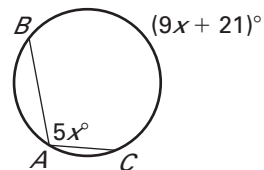
21.



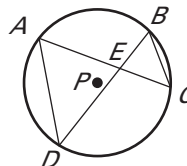
LESSON
10.4**Practice B** *continued*
For use with pages 671–679

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

- A. 7 B. 12
C. 16 D. 21



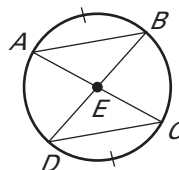
- 23. Proof**
- Complete the proof.

GIVEN: $\odot P$ PROVE: $\triangle AED \sim \triangle BEC$ 

Statements	Reasons
1. $\odot P$	1. Given
2. $\underline{\quad ? \quad}$	2. Vertical Angles Theorem
3. $\angle CAD \cong \angle DBC$	3. $\underline{\quad ? \quad}$
4. $\triangle AED \sim \triangle BEC$	4. $\underline{\quad ? \quad}$

- 24.**
- Name two other angles that could be used in Step 3 of Exercise 23.

- 25. Proof**
- Complete the proof.

GIVEN: $\widehat{AB} \cong \widehat{CD}$ PROVE: $\triangle ABE \cong \triangle DCE$ 

Statements	Reasons
1. $\widehat{AB} \cong \widehat{CD}$	1. $\underline{\quad ? \quad}$
2. $\underline{\quad ? \quad}$	2. Theorem 10.3
3. $\underline{\quad ? \quad}$	3. Vertical Angles Theorem
4. $\angle BDC \cong \angle CAB$	4. $\underline{\quad ? \quad}$
5. $\triangle ABE \cong \triangle DCE$	5. $\underline{\quad ? \quad}$