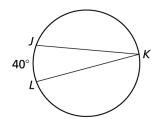
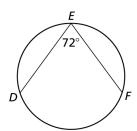
10.4 Practice A

In Exercises 1-3, find the indicated measure.

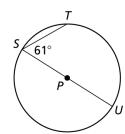
1. *m∠K*



2. m**D**F



3. m**3**T



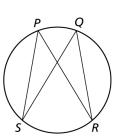
4. In the diagram shown, which statement is true? Explain.

A.
$$\angle SPR \cong \angle PSQ$$

B.
$$\angle RQS \cong \angle RPS$$

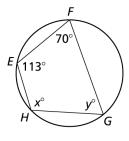
C.
$$\angle RPS \cong \angle PRQ$$

D.
$$\angle PRQ \cong \angle SQR$$

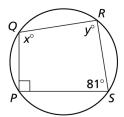


In Exercises 5–7, find the value of each variable.

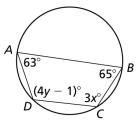
5.



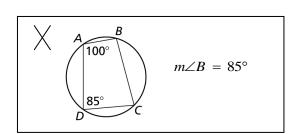
6.



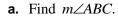
7.



8. Describe and correct the error in finding $m \angle B$.

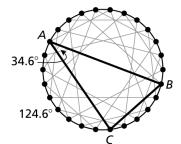


9. You make a design using a pencil and a circular wheel, as shown.



b. Find
$$m \angle ACB$$
.

c. What type of triangle is $\triangle ABC$? Explain.



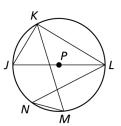
10.4

Practice B

In Exercises 1–8, find the measure of the indicated arc or angle in e P given $m \not \sim M = 84^{\circ}$ and $m \not \sim N = 116^{\circ}$.

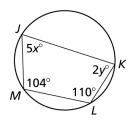
- **1.** *m∠JKL*
- **3.** *m∠KMN*
- **5.** *m∠KLN*
- 7. mMJ

- **2.** *m∠MKL*
- **4.** *m∠JKM*
- **6.** *m∠LNM*
- 8. mLKJ

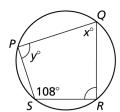


In Exercises 9–11, find the value of each variable.

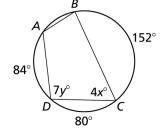
9



10.



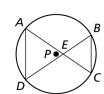
11.



12. Copy and complete the proof.

Given: e P

Prove: $\triangle AED$: $\triangle BEC$



STATEMENTS	REASONS
1. e P	1. Given
2	2. Vertical Angles Congruence Theorem (Thm. 2.6)
$3. \angle CAD \cong \angle DBC$	3
4. $\triangle AED$: $\triangle BEC$	4

- **13.** Your friend claims that the angles $\angle ADB$ and $\angle BCA$ could be used in Step 3 of Exercise 12. Is your friend correct? Explain your reasoning.
- **14.** Determine whether \overline{AB} is a diameter of the circle. Explain your reasoning.

