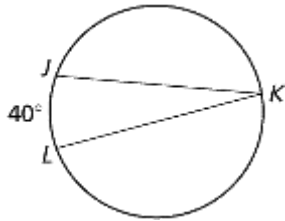


HW 10.4

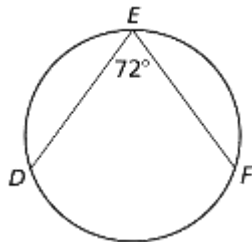
Inscribed Angles and Polygons

In Exercises 1–3, find the indicated measure.

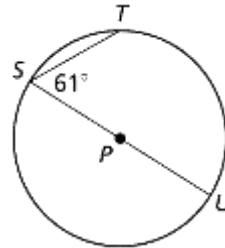
1. $m\angle K$



2. mDF

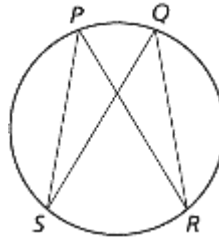


3. mST



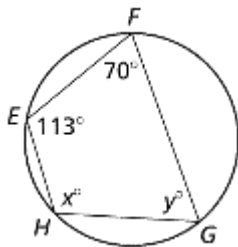
4. In the diagram shown, which statement is true? Explain.

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

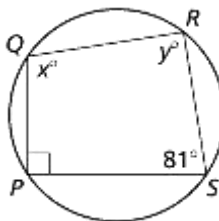


In Exercises 5–7, find the value of each variable.

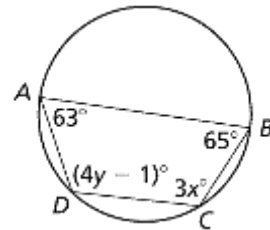
5.



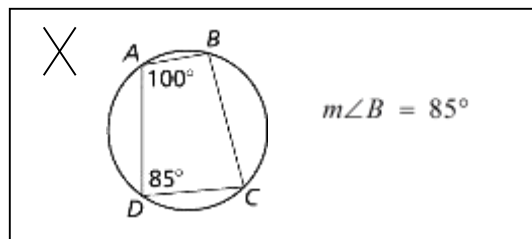
6.



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.

- a. Find $m\angle ABC$.
 b. Find $m\angle ACB$.
 c. What type of triangle is $\triangle ABC$? Explain.

