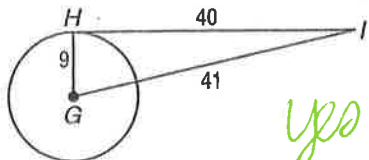


10-5 Skills Practice

Tangents

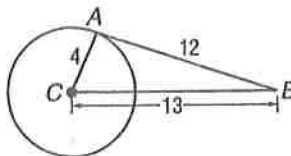
Determine whether each segment is tangent to the given circle.

1. \overline{HI}



yes
 $9^2 + 40^2 = 41^2$

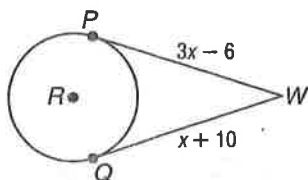
2. \overline{AB}



no
 $4^2 + 12^2 \neq 13^2$

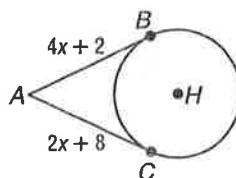
Find x . Assume that segments that appear to be tangent are tangent.

3.



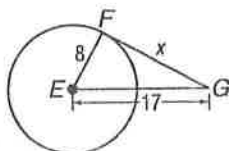
8

4.



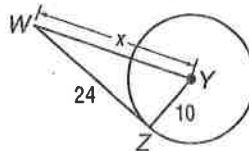
3

5.



15

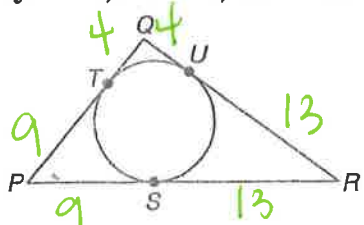
6.



24

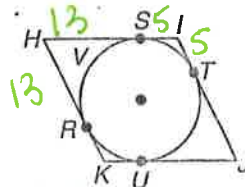
Find the perimeter of each polygon for the given information. Assume that segments that appear to be tangent are tangent.

7. $QT = 4$, $PT = 9$, $SR = 13$



52 units

8. $H I J K$ is a rhombus, $S I = 5$, $H R = 13$

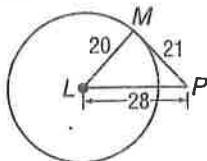


72 units

10-5 Practice Tangents

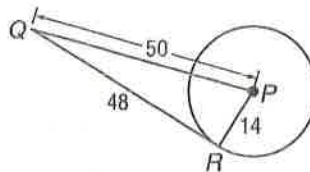
Determine whether each segment is tangent to the given circle.

1. \overline{MP}



no $20^2 + 21^2 \neq 28^2$

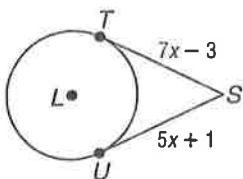
2. \overline{QR}



yes $14^2 + 48^2 = 50^2$

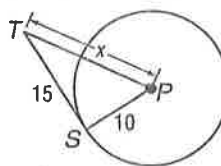
Find x . Assume that segments that appear to be tangent are tangent.

3.



2

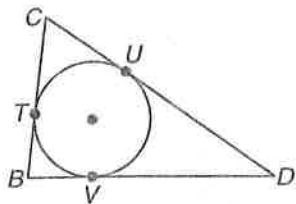
4.



$5\sqrt{13} = 18.03$

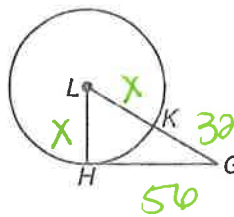
Find the perimeter of each polygon for the given information. Assume that segments that appear to be tangent are tangent.

5. $CD = 52, CU = 18, TB = 12$



128 units

6. $KG = 32, HG = 56$

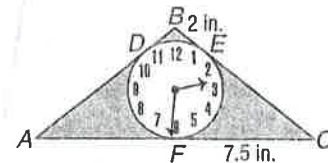


154 units

$x = 33$
 $x^2 + 56^2 = (x + 32)^2$

CLOCKS For Exercises 7 and 8, use the following information.

The design shown in the figure is that of a circular clock face inscribed in a triangular base. AF and FC are equal.



7. Find AB .

9.5 inches

8. Find the perimeter of the clock.

34 inches