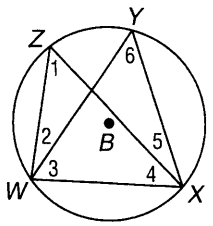
NAME _____ DATE _____ PERIOD _____

10-4

# Practice

## *Inscribed Angles*

**In $\odot B$, $m\overset{\frown}{WX} = 104$, $m\overset{\frown}{WZ} = 88$, and $m\angle ZWY = 26$. Find the measure of each angle.**




**1.** $m\angle 1$

**2.** $m\angle 2$

**3.** $m\angle 3$

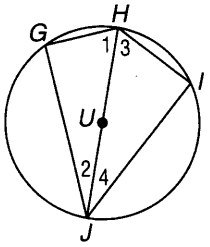
**4.** $m\angle 4$

**5.** $m\angle 5$

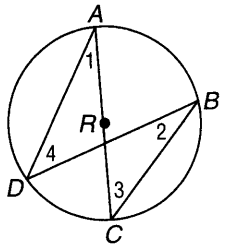
**6.** $m\angle 6$

**ALGEBRA Find the measure of each numbered angle.**

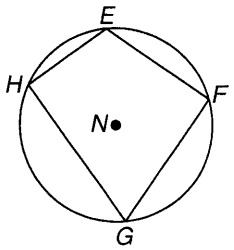
**7.** $m\angle 1 = 5x + 2$, $m\angle 2 = 2x - 3$
$m\angle 3 = 7y - 1$, $m\angle 4 = 2y + 10$




**8.** $m\angle 1 = 4x - 7$, $m\angle 2 = 2x + 11$,
$m\angle 3 = 5y - 14$, $m\angle 4 = 3y + 8$




**Quadrilateral $EFGH$ is inscribed in $\odot N$ such that $m\overset{\frown}{FG} = 97$, $m\overset{\frown}{GH} = 117$, and $m\overset{\frown}{EHG} = 164$. Find each measure.**




**9.** $m\angle E$

**10.** $m\angle F$

**11.** $m\angle G$

**12.** $m\angle H$

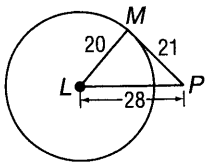
NAME _____ DATE _____ PERIOD ____

# 10-5 Practice

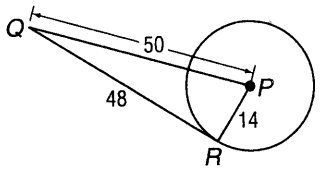
## Tangents

**Determine whether each segment is tangent to the given circle.**

1. $\overline{MP}$

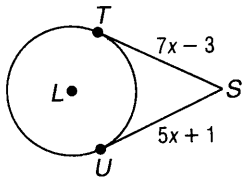



2. $\overline{QR}$

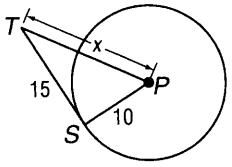



**Find $x$. Assume that segments that appear to be tangent are tangent.**

3.

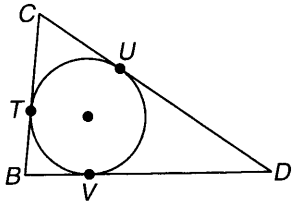



4.

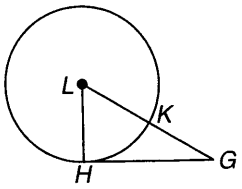



**Find the perimeter of each polygon for the given information. Assume that segments that appear to be tangent are tangent.**

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

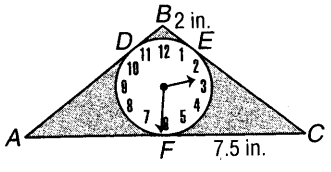



6. $KG = 32$, $HG = 56$




**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 $AB$.

8. Find the perimeter of the clock.