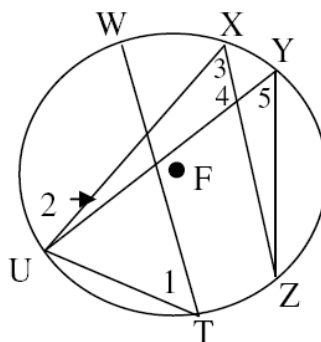


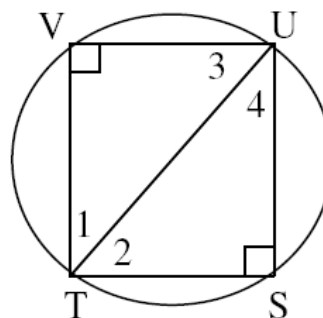
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Inscribed Angles and Their Measures

Exercise 1: Given a circle of center F , $m\widehat{WX} = 20^\circ$, $m\widehat{XY} = 40^\circ$, $m\widehat{UZ} = 108^\circ$ and $m\widehat{UW} = m\widehat{YZ}$. Find the measures of the numbered angles.



Exercise 2: Triangles TVU and TSU are inscribed in the circle of center P with $\overline{VU} \cong \overline{SU}$. Find the measure of each numbered angle if $m\angle 2 = x + 9$ and $m\angle 4 = 2x + 6$.



Exercise 3: Quadrilateral $QRST$ is inscribed in the circle of center M . If $m\angle Q = 87^\circ$ and $m\angle R = 102^\circ$. Find $m\angle S$ and $m\angle T$.

Exercise 4: Quadrilateral $MATH$ is inscribed in a circle of center R . Show that the opposite angles of the quadrilateral are supplementary.

