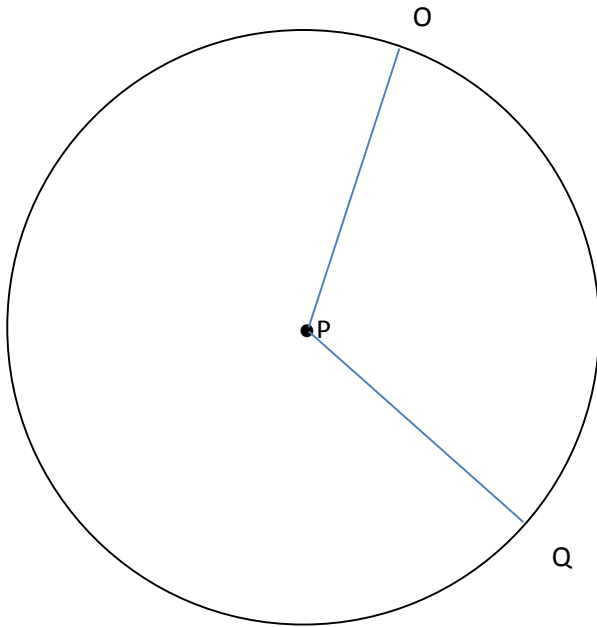


Unit Circles
Geometry 2
Day 4 Inscribed Angles

Name: _____

Period: 1 2 3 4 5 6 7 8

Central Angle:



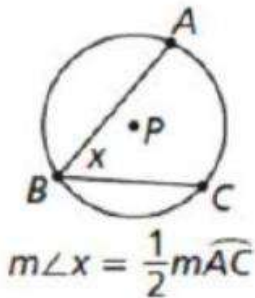
Given that P is the center:

$$m\angle OPQ = m\widehat{OQ}$$

Example: If $m\angle OPQ = 120^\circ$, what is the measure of arc OQ?

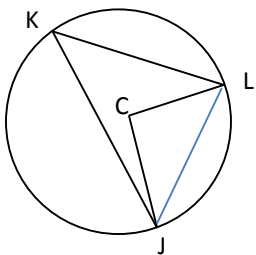
What is true about \overline{OP} and \overline{QP} ?

Inscribed Angle:



An **inscribed angle** has its vertex on the circle and its sides contain chords of the circle

Practice:



Given: C is the center of the circle and measure of arc LJ = 70°

Is it possible to find the following measurements, if so calculate:

a. $m\angle LCJ =$

b. $m\angle LJC =$

c. $m\angle CLJ =$

d. $m\angle LKJ =$

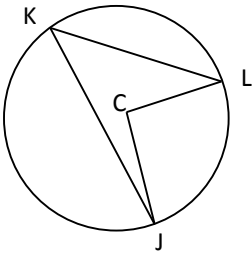
e. $m\angle KLJ =$

f. $m\angle KJL =$

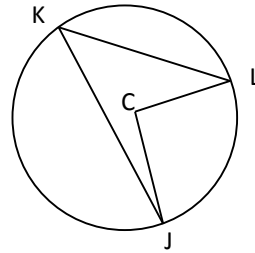
Applying the concept

Example 1:

a) If $m\angle JKL = 27^\circ$, what is $m\angle JCL$?

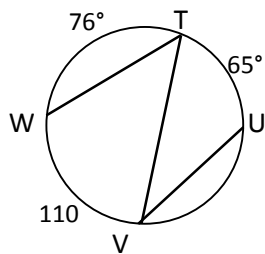


b) If $m\angle JCL = 90^\circ$, what is $m\angle JKL$?

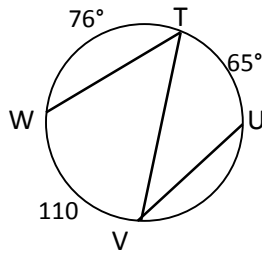


Example 2:

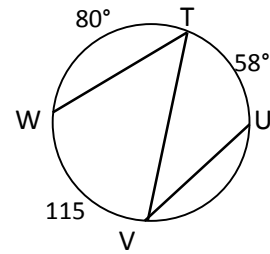
a) What is the $m\angle WTV$?



b) What is the $m\angle TVU$?

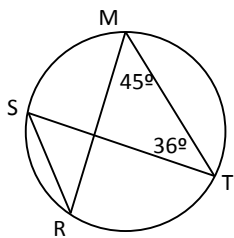


c) What is the $m\angle WTV$?

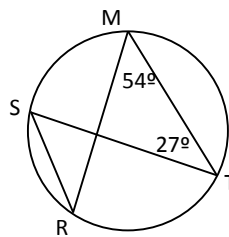


Example 3:

a) What is the measure of $\angle MRS$?



b) What is the measure of $\angle RST$?



Example 4: Find the value of x

