

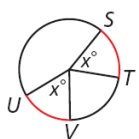
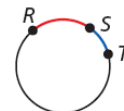
Geometry: 11-2 Notes

A _____ is an angle whose vertex is the center of a circle.

An _____ is an unbroken part of a circle consisting of two points called the endpoints and all the points on the circle between them.

Arc	Measure	Diagram
A _____ is an arc whose points are on or in the interior of a central angle. Must be named by _____ points.	The measure of a minor arc is equal to the measure of its _____ _____.	
A _____ is an arc whose points are on or in the exterior of a central angle. Must be named by _____ points.	The measure of a major arc is equal to _____ minus the measure of its _____ _____.	
If the endpoints of an arc lie on a diameter, the arc is a _____ _____.	The measure of a semicircle is equal to _____ _____.	

_____ are arcs of the same circle that intersect at exactly one point. _____ and _____ are adjacent arcs.



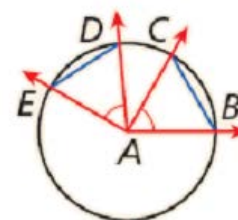
_____ are two arcs that have the same measure. In the figure, _____ \cong _____

Arc Addition Postulate: The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs.

_____ are two arcs that have the same measure.

Theorem 11-2-2: In a circle, or congruent circles...

1. central angles _____ \rightarrow chords _____
2. chords _____ \rightarrow arcs _____
3. arcs _____ \rightarrow central angles _____



Theorem 11-2-3: In a circle, if a radius (or diameter) is _____ to a chord, then it bisects the chord and its arc.

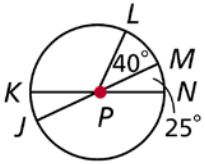
Theorem 11-2-4: In a circle, the _____ or a chord is a radius (or diameter).

Examples:

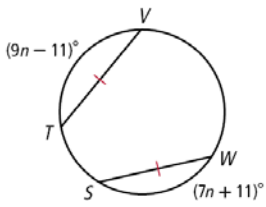
1. Find each measure

a. Measure of arc JKL

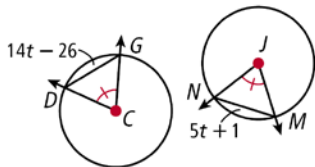
b. measure of arc LJN



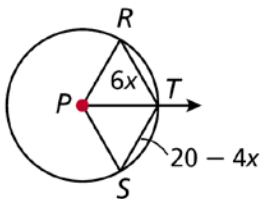
2. $\overline{TV} \cong \overline{WS}$. Find measure of arc WS.



3. Circle C \cong circle J and $m\angle GCD \cong m\angle NJM$. Find NM.



4. Ray PT bisects $\angle RPS$. Find RT.



5. Find NP.

