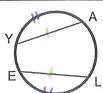
Geometry - 10.3 - Arcs and Chords

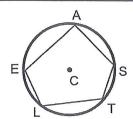
Theorem 10.2



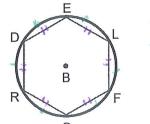
 In a circle or in congruent circles, two Minor corresponding Charles are Construct



- _ <u>tolugam</u> is a polygon whose · An Inscribed vertices all lie on the same circle.
- Pentagon ASTLE is Inscribed in circle C.
- Circle C is Circum Scribed about pentagon ASTLE.



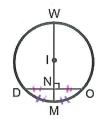
Ex 1 - Determine the measure of each arc of a circle circumscribed about a regular hexagon.



360° = 60° = mEL = mEF = mFo = mOR = mRD = mDE

Theorem 10.3

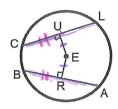
• In a circle, if a diameter (or radius) is perpendicular to a <u>chord</u>, then it orsects the chord and its arc.





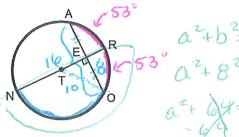
Theorem 10.4

• Two chords are Congruent if and only if they are equidistant from the center.



CL = BA

Ex 2 - In the circle below, the radius is 10 cm, AO = 16 cm, and $mAR = 53^{\circ}$. Find mNO and ER.



Ex 3 - Chords DA and ET are equidistant from the center of the circle. If the radius of the circle is 15 ft and DA = 24 ft, find RO and RT.

