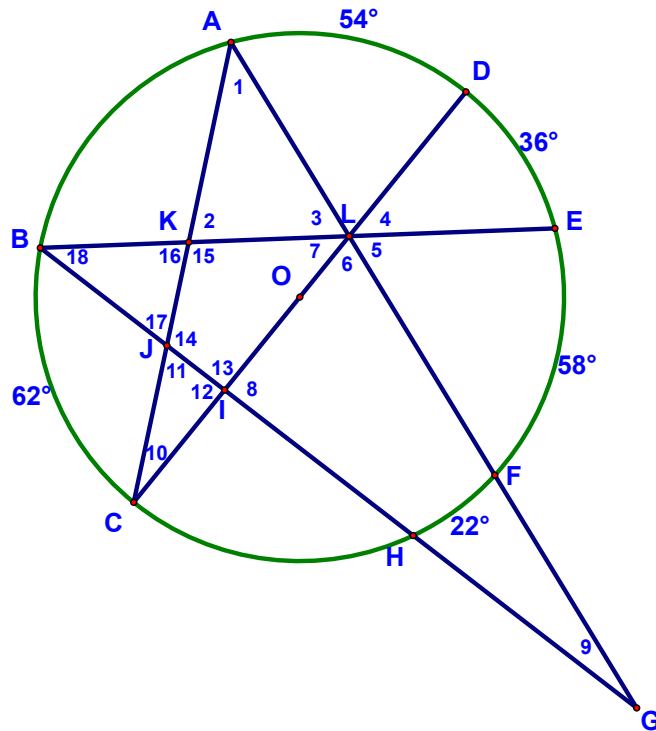




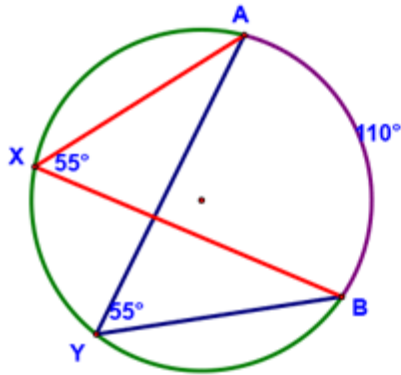
More Angle-Arc Theorems - Lesson 10-6

Here's a warmup...it isn't in the video, but you should try it anyway!

Find the measures of the missing arcs and the indicated angles related to $\odot O$.

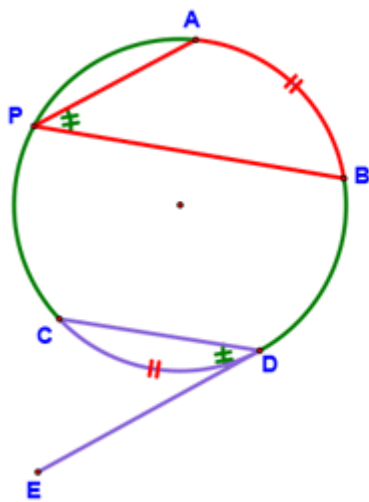


Today we going to learn some more properties of angles related to circles...we've actually pretty much done these before, so you should understand them pretty easily.



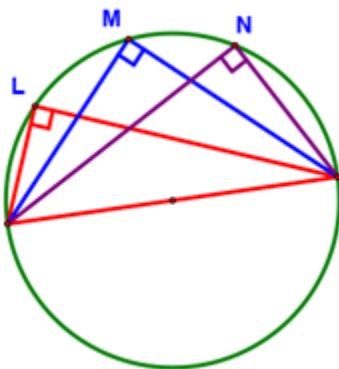
Theorem 88

If two inscribed or tangent-chord angles intercept the same arc, then they are congruent.



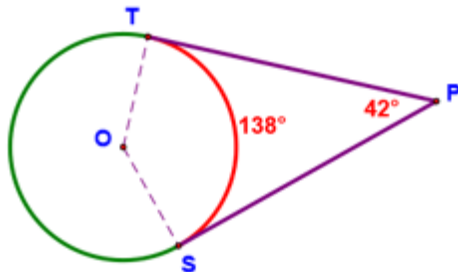
Theorem 89

If two inscribed or tangent-chord angles intercept congruent arcs, then they are congruent.



Theorem 90

An angle inscribed in a semicircle is a right angle.



Theorem 91

The sum of the measures of a tangent-tangent angle and its minor arc is 180.

$$m \widehat{ST} + m \angle SPT = 180^\circ$$

My suggestion to you here is to just study these theorems and make sure you can apply them to similar problems...you should be able to recognize these situations in a variety of problems.