Geomet	try Regen	ts Lomac 2015-2016	Date <u>5/11</u>	due <u>5/12</u>	Circles: Intersecting Chords and their Angles	10.4R			
Name LO:									
🗌 DO N	IOW (On the back of this packe	et						

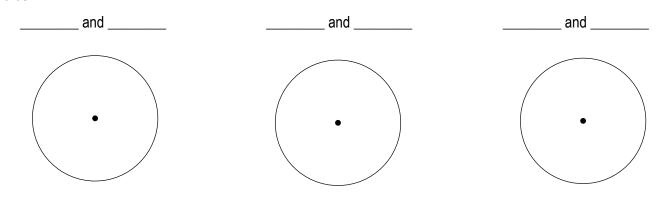
(1) Circles and arc measure

http://tube.geogebra.org/student/m57642

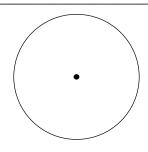
1

Use the website link for 10.4 (see above or use the QR code at right) to investigate the relationship between angles formed by intersecting chords and the arcs they intercept. Complete a sketch for below that shows possible measures for the intercepted arcs when the vertical angles are 40°. Be sure to label the vertical angles 40 degrees and the intercepted arcs with possible measures.

Two chords intersect and the pair of vertical angles formed are each 40°. The measures for the intercepted arcs could be:



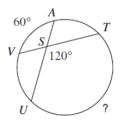
Write a sentence that summarizes the relationship between the measure of the vertical angles formed by two chords and the arcs intercepted by them. Include a labeled diagram and an equation showing the relationship.

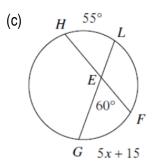


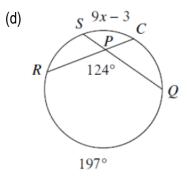
Write an equation that relates the angle and arc measures: _____

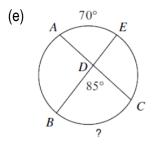
- (2) Use what you know about **congruent chords** and **parallel** chords to find the indicated measures.
 - (a) Find the measure of "?" 53° V ? T 175°

(b) Find the measure of "?"

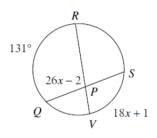








(f) Find $m \angle QPR$



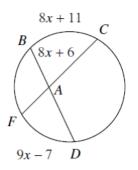
Exit Ticket

Homework

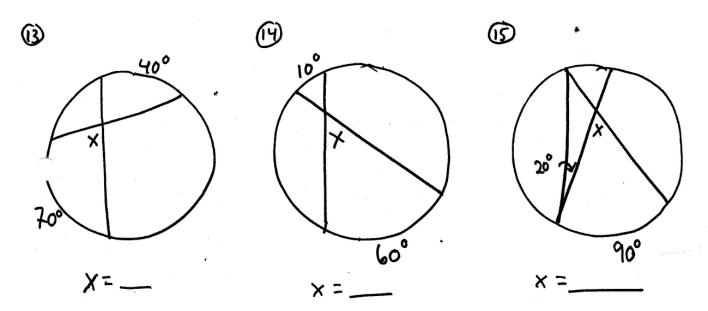
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(1) Find \widehat{mBC}

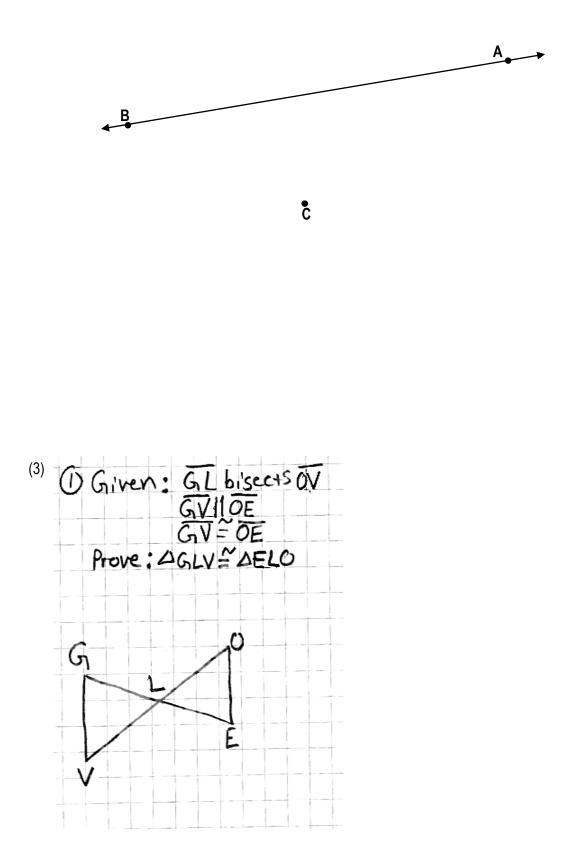


(2) Find the measure of x for each diagram



(7) Homework

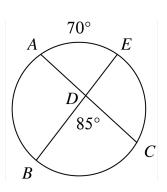
(3) Review: Construct a line parallel to line BA that passes through point C. There are a few ways to do this.

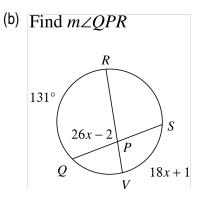


Exit Ticket	Name		Date _	Per	10.4R
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The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

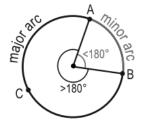
- (1) Find the indicated measure for each diagram.
- (a) Measure of arc BC = ____





DO NOW	Name	_ Date	_Per	10.4R

(1) Below is a diagram that shows what major and minor arcs are. Draw a diagram and label it with appropriate arc measures so that you have a major arc and a minor arc in the diagram.



(2) Sketch a circle with circumference = 8π . Draw and label the length of the radius.

(2) Review: When a segment is dilated, one of two things can result.

Either the segment and image

OR, the segment and image _____