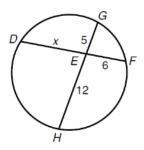
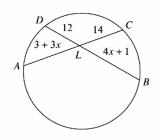
Geome	etry Regents Lomac 2015-2016	Date <u>5/13</u>	due <u>5/16</u>	Circles: Chords and Segment Lengths 10.6R		
Name LO:	I can solve problems involving seg	ments of inte	Per			
LO.	r can solve problems involving seg	inenis oi ini	ersecting choi	us		
	NOW On the back of this packet					
<u></u> (1)	Circles and arc measure		https://	schoolyourself.org/learn/geometry/chord-product		
	Use the website link for 10.6 (see a between segments formed by inter			at right) to investigate the relationship		
	(a) Connect 2 points that are not connected to make a chord.					
	☐ (b) Highlight the triangle that you formed					
	(c) An angle in the triangle	you highligl	hted is vertica	I to another		
	angle in the diagram. Mark those angles congruent.					
(d) Connect 2 of the labeled points on the diagram to form a						
triangle that includes the vertical angle you just marked. $iggert d$						
☐ (e) Highlight the triangle that you formed						
(f) So far, you have marked pair(s) of congruent angles.						
	Find another pair of cong	ruent angles	in the triangle	es so that		
	you can prove that the tri	angles are s	imilar by AA~.	(Think		
	"inscribed angles ")			<u>_</u>		
	☐ (g) △~ ~ △	by	·			
	(h) Since you know that the	e triangles a	ıre similar, wri	te a		
	proportion with the original	al 4 segment	ts that were in	the		
	diagram. This is how you	can find the	lengths of se	gments of		
	chords.					
	☐ Write a sentence that des	cribes how to	o use similar t	riangles to find the measures of segments of		
	intersecting chords.					
	SHORTCUT:			_=		

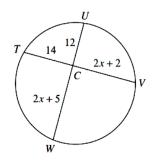
- - (a) Find the measure of x



(b) Find CA



(c) Find UW



(3) calculator

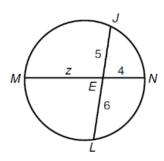
Exit Ticket

ON THE LAST PAGE

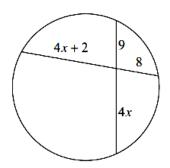
(4) calculator

Homework

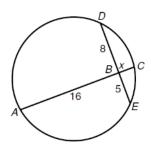
(1) Find the measure of z.



(2) Find the measure of x



(3) Find the measure of segment AC

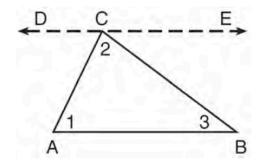


(4) calculator

Homework

(3) Review:

Given the theorem, "The sum of the measures of the interior angles of a triangle is 180° ," complete the proof for this theorem.



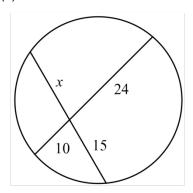
Given: $\triangle ABC$

Prove: $m\angle 1 + m\angle 2 + m\angle 3 = 180^{\circ}$ Fill in the missing reasons below.

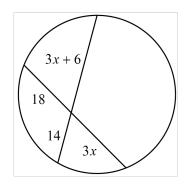
Reasons		
(1) Given		
(2)		
(3)		
(4)		
(5)		

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. Show sufficient evidence of your solution
- (a) x = _____



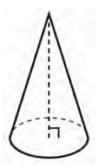
(b) Find the lengths of the unknown segments



Name

(1) 17 The aspect ratio (the ratio of screen width to height) of a rectangular flat-screen television is 16:9. The length of the diagonal of the screen is the television's screen size. Determine and state, to the *nearest inch*, the screen size (diagonal) of this flat-screen television with a screen height of 20.6 inches.

(2) 56 William is drawing pictures of cross sections of the right circular cone below.



Which drawing can *not* be a cross section of a cone?





1



3

