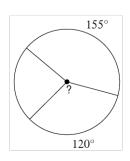
Geome	try Reg	ents Lomac 2015-2016	Date <u>5/6</u>	due <u>5/9</u>	Circles	s: Arcs and Central Angles	10.1R	
Name				Per				
LO:	I can find arc and central angle measures and explain the relationship between central angles and their intercepted arcs.							
	WOM	On the back of this packe	t					
<u></u> (1)	Circles and arc measure  An angle measure is determined by the number of degrees of							
	The	measure of an <b>arc</b> is		the r	neasure or the <b>ce</b>	ntrai angie inai intercepts ii		
	Central Angles on SchoolYourself.org <a href="https://schoolyourself.org/learn/geometry/central_angle">https://schoolyourself.org/learn/geometry/central_angle</a>							
<u>(2)</u>	see that measur [a] (a) 80°.	•	n #2 above. easure. (b) 222°.	•	ketch for each ex le measures e intercepted	ral angle and the arc it intercample below. Be sure to label  (c) An arc measures 68°  Therefore, the subtended ceangle measures	the arc	
	<b>—</b> ` '	Write a sentence that summer of the arc it intercepts.	marizes the r	elationship be	tween the measu	re of a <b>central angle</b> and the		
<u>(3)</u>	The su	, , ,	•			ure of the sum all non-overlap	ping	

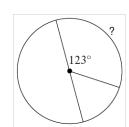
## (4) Using the relationship between central angles and intercepted arcs

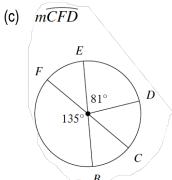
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

(a)

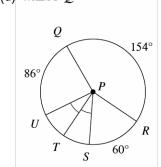


(b)

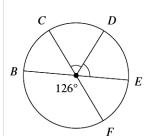




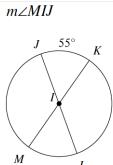
(d)  $m \angle SPQ$ 



(e)  $\widehat{mEFC}$ 



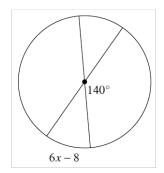
(f)



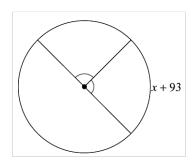
## <u></u> (5) Using the relationship between central angles and intercepted arcs

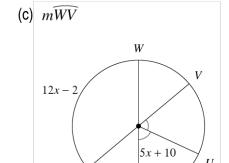
☐ Solve for the indicated measure. Assume that lines which appear to be diameters are actual diameters.

(a) x

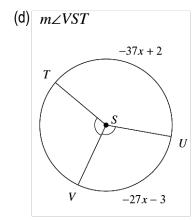


(b) x





T



(6) calculator

**Exit Ticket** 

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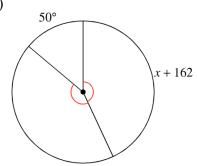
(7) calculator

Homework

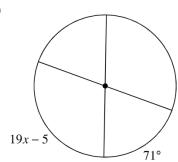
(1)

Solve for x. Assume that lines which appear to be diameters are actual diameters.

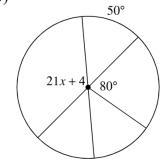
1)



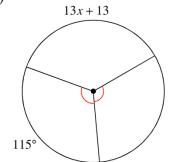
2)



3)

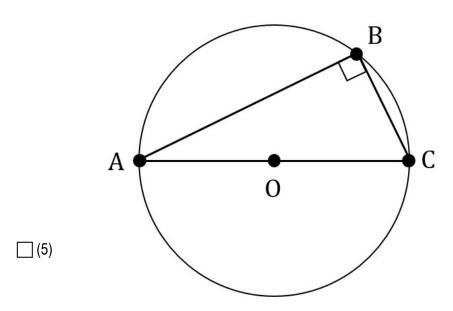


4)



## Homework

(5) The diameter of circle O is 8 and the measure of angle A is 28°. Find the measures of segment AB and segment BC.



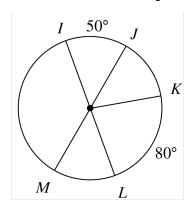
(6)

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:

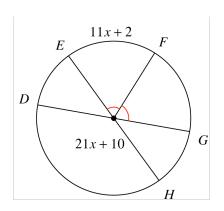
(1) Find the indicated measure for each diagram.

Name\_

(a)  $m\widehat{MI}$ 



(b)  $\widehat{mDE}$ 



DO NOW	Name_	Date	_ Per	10.1R
(1) In the space	ce below, draw a circle, then:			
(a) Dı	raw and label center R			
(b) Di	raw and label diameter AB			
(c) Dı	raw and label point C anywhere on the circle such	ch that it is distinct f	rom A and B	
(d) W	hat shape does it look like is formed when you	connect points A. B.	, and C?	
` '	onnect point R to point C	, ,		
. ,	·			

(2) Both images below are made out of the same 4 shapes. How can the first one have a gap and the second one not have a gap?

(f) Name 3 radii.