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Geome	try Regents Lomac 2015-2016	Date <u>5/12</u>	due <u>5/13</u>	Circles: / Intersecting S	Arcs and Angles with ecants and Tangents	10.5R	
Name LO:	I can identify relationships with a them to solve problems.	rc measures a	<b>Per</b> and intersectir	ng secants and tangent	s and use		
	NOW On the back of this pack	et					
(1)	Circles and arc measure http://tube.geogebra.org/student/m37768   Use the website link for 10.5 (see above or use the QR code at right) to investigate the relationship between angles formed by intersecting intersecting secants and tangents and the arcs they intercept. Complete a sketch for each example. Image: Complete a sketch for each example.   Two secants, or a secant and tangent, or 2 tangents intersect a circle. Write relationships between the angle and intercepted arcs.						
	2 Secants		2 tangents		1 secant 1 tangent		
	angle, small arc, big arc		angle, sm	all arc, big arc	angle, small a	rc, big arc	
	•			•	•		

Write a sentence that summarizes the relationship between the measure of an angle formed by secants and/or tangents and the arcs intercepted by it. Include a labeled diagram and an equation showing the relationship.



- $\Box$  (2) Find the value of the variable or indicated arc or angle measure.
  - (a) Find  $m\widehat{BD}$











### Exit Ticket

ON THE LAST PAGE

	(7)
calc	ulato

## Homework

(1) Find the measure of angle V.



(2) Find the measure of x



(3) Find the measure of arc QS



# (7) Homework

(3) Review:

Identify a relationship, write an equation or equations, solve for x.







Exit Ticket	Name		Date	Per	10.5R
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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. Show sufficient evidence of your

## solution





#### 6 DO NOW Name\_

Date \_\_\_\_\_ Per\_\_\_

(1) 45 In the diagram below of circle O with diameter  $\overline{BC}$  and radius  $\overline{OA}$ , chord  $\overline{DC}$  is parallel to chord  $\overline{BA}$ .



If m $\angle BCD = 30^\circ$ , determine and state m $\angle AOB$ .

