Name (print first and last) 3.10 Segment Lengths: Secants and Tangents SLO: I can solve problems involving Secants and Tangents.		Per Date: <u>4/7 due 4/8</u> Geometry Regents 2013-2014 Ms. Lomac	
(1st)	(2 nd)	(3 rd)	
M •	T •	S B	
B			
REDRAW ↓	н REDRAW	U —G	
		=	
<u> </u>			
Proportion:	Proportion:	Equation:	
Proportion:	the segments intersect the circ	Equation: rcle on all 3 diagrams. You should mark a total of	9 points
Proportion: (a) Make clear points where the 3 diagrams combined	the segments intersect the circle.	·	
Proportion: (a) Make clear points where the for the 3 diagrams combined (b) On the 1st diagram, connection (c) Highlight the two triangles	the segments intersect the circle. d. ect the points so that you have	rcle on all 3 diagrams. You should mark a total of re 2 triangles that partially overlap. (Like this Not any angles that you know are congruent because of	this

(2) \square Repeat the process of 1b through 1f again with the 2nd diagram. (for step b, Like this \triangleright Not this \triangleright

(f) Write a proportion with ratios of corresponding sides of the triangles. Be sure to only use segments that were

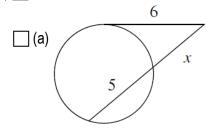
(e) Redraw the triangles separately. Label everything you know.

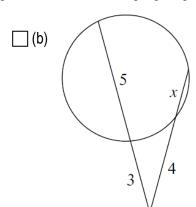
part of the original diagram

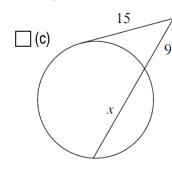
(3) Tor the third diagram, label the center Y. Draw radii, YB and YG. Draw segment YU. Use the two triangles to prove

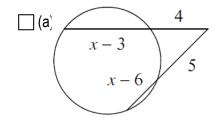
the relationship between \overline{UB} and \overline{UG}

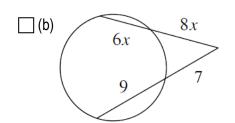
(4) Find the variable or the indicated segment measure. *** Highlighting segments can be helpful.











$$\square$$
 (c) Find RP

