8.8 Name (print first and last 8.8 Segment Lengths: Ch ASLO: I can solve problems	t) hords and Diameters a involving diameters and chords.	Per Ge	Date: <u>4/3 due 4/4</u> cometry Regents 2013-2014 Ms. Lomac
(1) 🗌 Use the website link for lesson 8.8 to help you learn the special relationship between chords and diameters.			
(a) Construct the perpendicular bisector of \overline{WT} and label the intersections with the circle R and S. Label the intersection of \overline{WT} and \overline{RS} with a Q.			
☐ (b) <i>RS</i> is a	of circle O.	The perpendicular	
bisector of ANY chord in a circle is aof the circle. O			
(c) If we know that a diameter bisects a chord, then it must also be			
to the chord. If we know that a diameter is			
perpendicular to a chord, then it must also the chord.			
(d) Prove the CHORD DIAMETER THEOREM which are your statements in part C. Mark each diagram provided as you write/assemble your proof. $R \xrightarrow{Q} O$			
IIIf a diameter (\overline{RS}) bisects a chord (\overline{WT}), then the diameter is perpendicular to the chordIf a diameter) is perpendicular to a chord (\overline{WT}), then diameter bisects the chord
I know that	because	I know that	. because

8.8

(2) In your proof, you added radii to your diagram and formed 2 triangles. What kind of triangles were formed?____

What formula can you use to find unknown side lengths of ______ triangles?_









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