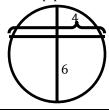
Name:

Geometry

10.6 Segment Relationships in Circles

If two _____ intersect ____ a circle, then the _____ of the measures of the ____ of the chords are ____.

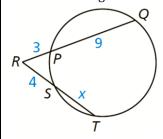
A person is stuck in a water pipe with unknown radius. He estimates that surface of the water makes a 4 ft chord near the top of the pipe and that the water is 6 ft deep. How much room is available for his head?



Segments of Secants Theorem

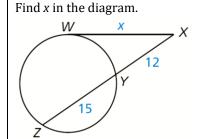
If two ______ are drawn to a circle from an _____ point, then the _____ of the measures of one _____ segment and its _____ secant segment is _____ to the product of the measures of the other secant segment and its external secant segment.

Find *x* in the diagram.



Segments of Secants and Tangents Theorem

If a ______ segment and a _____ segment are drawn to a circle from an _____ point, then the _____ of the measure of the _____ segment is equal to the _____ of the measures of the _____ segment and its _____ secant segment.



Assignment: 553 #2, 3, 4, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 25, 28, 29, 30, 31 = 20 total