Accel. Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Segment Lengths in Circles Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_

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| **Theorem 1** | **Theorem 2** |
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| **Example 1** | **Example 2** |
| Find the radius of the circle. | Find the value of *x*, given that *S* and *T* are points of tangency. |

**Example 3**: Write the equation of the line tangent to the given circle at the given point.

a) , (1,4) b) , (-8,1)

Segments of Chords Theorem:



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Segments of Secants Theorem:



 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Segments of Secants and Tangents Theorem:



 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice Problems:

1.  2. 3.



4.  5. 6.

7.  8. 9.