**Calculus Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_**

**HW 16: Unit 3.1 – Write the Equations of the Secant, Tangent & Normal Lines**

1. **Given **
2. Find the equation of the secant line between those points on the graph of for which and .
3. Find the derivative .
4. Find the equation of the *Tangent* & *Normal* lines to the graph of at .

Tangent Line:

Normal Line:

1. **Given **
2. Find the equation of the secant line between those points on the graph of for which and .
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Tangent Line:

Normal Line:

1. **Given:**

a. Find the equation of the Secant Line between the points x = 0 and x = 2.

b. Find the derivative f '(x).

c. Find the equations of the tangent & normal lines at x = 1.

Tangent Line:

Normal Line: