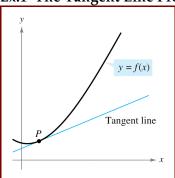
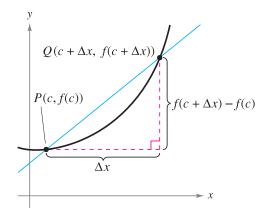
Math 150, Lecture Notes-Bonds

Name_____

<u>Section 1.1 A Preview of Calculus</u> the Area Problem

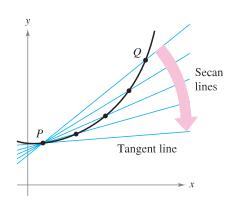
Ex.1 The Tangent Line Problem





(a) The secant line through (c, f(c)) and $(c + \Delta x, f(c + \Delta x))$

$$m_{sec} = \frac{f(c + \Delta x) - f(c)}{c + \Delta x - c} = \frac{f(c + \Delta x) - f(c)}{\Delta x}.$$



(b) As *Q* approaches *P*, the secant lines approach the tangent line.

Ex.2 The Area Problem

