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will give a cursory discussion of some basic  
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of derivatives 195 Thus, the rate of change of  
y with respect to x can be calculated using  
the rate of change of y and that of x both with  
respect to t ., Mathematics Notes for Class

12 chapter 6. Application of Derivatives  
Tangents and Normals The derivative of the  
curve  $y = f(x)$  is  $f'(x)$  which represents  
the slope of tangent and equation of the  
tangent to the curve at P is where  $(x, y)$  is an  
arbitrary point on the tangent. The equation  
of normal at  $(x, y)$  to the curve is 1.,  
Tangents and Normals. The derivative of the  
curve  $y = f(x)$  is  $f'(x)$  which represents  
the slope of tangent and equation of the  
tangent to the curve at P is ... math notes For  
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Chapter 6. Please Click on G-plus or  
Facebook, [www.pearsonhighered.com](http://www.pearsonhighered.com),  $x =$   
 $10$ ? The second derivative is  $f''(x) =$   
 $400/x^3$ , and  $f''(10) > 0$ , so there is a  
local minimum. Since there is only one  
critical value, this is also the global minimum,  
so the rectangle with smallest perimeter is  
the  $10 \times 10$  square. EXAMPLE 6.1.8 You  
want to sell a certain number  $n$  of items in  
order to maximize your profit., Slopes,  
Derivatives, and Tangents Matt Riley, Kyle  
Mitchell, Jacob Shaw, Patrick Lane .  
Introduction ! The slope of a tangent line at a

point on a curve is known as the derivative at that point ! Tangent lines and derivatives are some of the main focuses of the study of ... Applications of Tangent Lines and Derivatives ! As previously mentioned ..., tangents is that they are close (provided we don't move too far from a): That is the all-urpose linear approximation. Figure 3.1 shows the square root function  $y = \sqrt{x}$  and its tangent line at  $x = a = 100$ . At the point  $y = \sqrt{100} = 10$ , the slope is  $1/2\sqrt{x} = 1/20$ . The table beside the figure compares  $y(x)$  with  $Y(x)$ . This is the slope of the tangent line. The approximation is  $f(x) \approx f(a) + f'(a)(x-a)$  or  $f(x) \approx 10 + 0.05(x-100)$ . The right side is the tangent line  $Y(x)$ . The other form is  $f(x) \approx f(a) + f'(a)(x-a)$ . The step  $x - 5$  is  $Ax$ . 2. (This is Problem 3.1.15) Calculate the numerical error in the linear approximation to  $\sin(x)$  from the base point  $a = 0$ . The AP Calculus Problem Book Publication history: First edition, 2002 Second edition, 2003 Third edition, 2004 Third edition Revised and Corrected, 2005, Applications of Partial Derivatives: ... derivative may be interpreted as the rate of change in output with respect

to the input variable or the slope of the tangent line touching the graph at the point of interest. Since you are working with a three-dimensional function, you need to consider the derivative from two points of view - with ...

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