

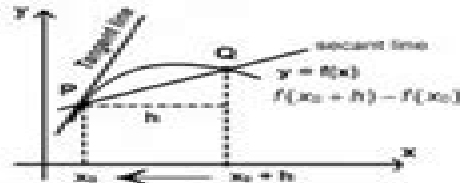
The Derivative

- Definition of the Derivative
- Notational stuff about the Derivative
- Existence of the Derivative
- Relationship btw differentiability and continuity
- Derivatives at the endpoints of the interval

$$m_{\text{tan}} = \lim_{x_1 \rightarrow x_0} \frac{f(x_1) - f(x_0)}{x_1 - x_0}$$

Let $h = x_1 - x_0$ so that $x_1 = x_0 + h$
and $h \rightarrow 0$ as $x_1 \rightarrow x_0$

$$m_{\text{tan}} = \lim_{h \rightarrow 0} \frac{f(x_0 + h) - f(x_0)}{h}$$



DEFINITION 3.2.1

If $P(x_0, y_0)$ is a point on the graph of a function f
then the tangent line to the graph of f at P is
defined to be the line through P with slope

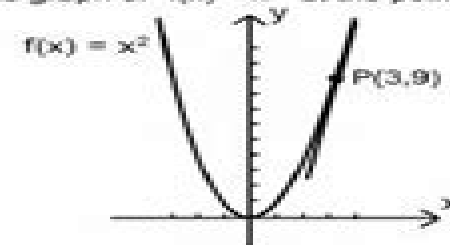
$$m_{\text{tan}} = \lim_{h \rightarrow 0} \frac{f(x_0 + h) - f(x_0)}{h}$$

provided this limit exists.

- We make this definition provided that the *limit* in the definition exists.
- The tangent line at the point $P(x_0, y_0)$ is just called the tangent line at x_0 .
- Equation of the tangent line at x_0 is

$$y - y_0 = m_{\text{tan}} (x - x_0)$$

Find the slope and equation of the tangent line to the graph of $f(x) = x^2$ at the point $P(3,9)$.



$$x_0 = 3 \text{ and } y_0 = 9$$

$$\begin{aligned} m_{\text{tan}} &= \lim_{h \rightarrow 0} \frac{f(3+h) - f(3)}{h} = \lim_{h \rightarrow 0} \frac{(3+h)^2 - 9}{h} \\ &= \lim_{h \rightarrow 0} \frac{9 + 6h + h^2 - 9}{h} = \lim_{h \rightarrow 0} \frac{6h + h^2}{h} \\ &= \lim_{h \rightarrow 0} \frac{h(6+h)}{h} \\ &= \lim_{h \rightarrow 0} (6+h) = 6 \end{aligned}$$

So equation of tangent line

$$y - 9 = 6(x - 3)$$

$$y = 6x - 9$$

If we replace x_0 by x then we can
rewrite the formula for m_{tan} as

$$m_{\text{tan}} = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

Elements Of Calculus With Analytic Geometry

Elias 1811-1889 Loomis



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