

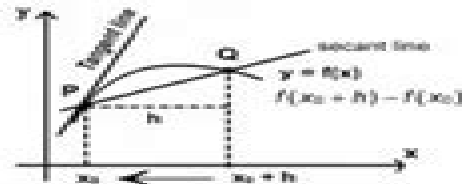
## The Derivative

- 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

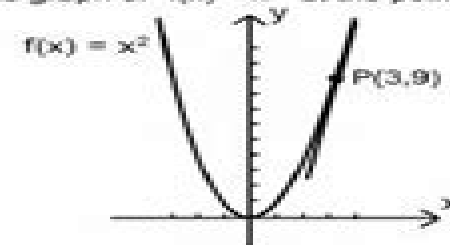
$$m_{\text{tan}} = \lim_{h \rightarrow 0} \frac{f(x_0 + h) - f(x_0)}{h}$$

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  $m_{\text{tan}}$  as

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

# Elements Of Calculus With Analytic Geometry

**Huangqi Zhang**



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## **Table of Contents Elements Of Calculus With Analytic Geometry**

1. Understanding the eBook Elements Of Calculus With Analytic Geometry
  - The Rise of Digital Reading Elements Of Calculus With Analytic Geometry
  - Advantages of eBooks Over Traditional Books
2. Identifying Elements Of Calculus With Analytic Geometry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Elements Of Calculus With Analytic Geometry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Elements Of Calculus With Analytic Geometry
  - Personalized Recommendations
  - Elements Of Calculus With Analytic Geometry User Reviews and Ratings
  - Elements Of Calculus With Analytic Geometry and Bestseller Lists
5. Accessing Elements Of Calculus With Analytic Geometry Free and Paid eBooks
  - Elements Of Calculus With Analytic Geometry Public Domain eBooks
  - Elements Of Calculus With Analytic Geometry eBook Subscription Services
  - Elements Of Calculus With Analytic Geometry Budget-Friendly Options
6. Navigating Elements Of Calculus With Analytic Geometry eBook Formats
  - ePub, PDF, MOBI, and More
  - Elements Of Calculus With Analytic Geometry Compatibility with Devices
  - Elements Of Calculus With Analytic Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Elements Of Calculus With Analytic Geometry
  - Highlighting and Note-Taking Elements Of Calculus With Analytic Geometry
  - Interactive Elements Elements Of Calculus With Analytic Geometry
8. Staying Engaged with Elements Of Calculus With Analytic Geometry

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Elements Of Calculus With Analytic Geometry
- 9. Balancing eBooks and Physical Books Elements Of Calculus With Analytic Geometry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Elements Of Calculus With Analytic Geometry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Elements Of Calculus With Analytic Geometry
  - Setting Reading Goals Elements Of Calculus With Analytic Geometry
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elements Of Calculus With Analytic Geometry
  - Fact-Checking eBook Content of Elements Of Calculus With Analytic Geometry
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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