

### Review chapter 3 Calculus 1

1 . If  $h(x) = \frac{x \sin x}{e^x}$ , find  $h'(\pi/4)$ .

2 . Find the derivative of the following function, where it exists:  
 $f(x) = \ln(\cos(\sqrt[3]{x+2}))$ .

3 / a/ Find  $f'(1)$  when  $f(x) = \begin{cases} \frac{\ln(5x-4)}{x-1} & , x \neq 1 \\ 5 & , x = 1 \end{cases}$

b/ Find  $k'(0)$  when  $k(x) = \begin{cases} \frac{e^{2x} + x - 1}{4x} & \text{if } x < 0 \\ \cos x & \text{if } x \geq 0 \end{cases}$

c/ Find  $a$  such that  $g(x) = \begin{cases} \frac{\sin x}{x} & \text{if } x \neq 0 \\ a & \text{if } x = 0 \end{cases}$  be differentiable at  $x = 0$ .

d/ Find  $b$  such that  $h(x) = \begin{cases} \frac{e^{2x} - b}{x} & \text{if } x \neq 0 \\ 2 & \text{if } x = 0 \end{cases}$  be differentiable at  $x = 0$ .

4/a/ Find the equation of the tangent line to the curve  $y = (x^2 + 3x - 2)(7 - 3x)$  at  $x = 1$ .

b/ Find the equation of the tangent line to the curve  $x^2 + y^2 = 3x + 2y$  at  $P(3;2)$ .

c/ Given the curve (C) :  $y = f(x) = x^4 - 2x + 1$ . Find the equation of the tangent line to the curve if known that the tangent line is parallel with the line  $(d_1)$ :  $2x - y = 3$ .

d/ Given the curve (C):  $y = \frac{3x+5}{x+1}$ . Find the equation of the tangent line to the curve if known that the tangent line is perpendicular to the line  $(d_2)$ :  $2x - y - 1 = 0$ .

# Calculus Chapter 3 Review

**Soo T. Tan**



## Calculus Chapter 3 Review:

This book delves into Calculus Chapter 3 Review. Calculus Chapter 3 Review is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Calculus Chapter 3 Review, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Calculus Chapter 3 Review
  - Chapter 2: Essential Elements of Calculus Chapter 3 Review
  - Chapter 3: Calculus Chapter 3 Review in Everyday Life
  - Chapter 4: Calculus Chapter 3 Review in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Calculus Chapter 3 Review. This chapter will explore what Calculus Chapter 3 Review is, why Calculus Chapter 3 Review is vital, and how to effectively learn about Calculus Chapter 3 Review.
3. In chapter 2, the author will delve into the foundational concepts of Calculus Chapter 3 Review. This chapter will elucidate the essential principles that need to be understood to grasp Calculus Chapter 3 Review in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Calculus Chapter 3 Review in specific contexts. The fourth chapter will explore how Calculus Chapter 3 Review is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Calculus Chapter 3 Review. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Calculus Chapter 3 Review.

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