

### 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

**Lingsheng Yao**



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Kreyszig, 2011-08-24 This market leading text is known for its comprehensive coverage careful and correct mathematics outstanding exercises and self contained subject matter parts for maximum flexibility The new edition continues with the tradition of providing instructors and students with a comprehensive and up to date resource for teaching and learning engineering mathematics that is applied mathematics for engineers and physicists mathematicians and computer scientists as well as members of other disciplines *Calculus for the Managerial, Life, and Social Sciences* Soo Tang Tan, 1997 Author Soo Tang Tan knows that students majoring in business management economics and the social and life sciences appreciate understanding how the math they are learning relates to their future careers So Tan has filled this Fourth Edition of *Calculus for the Managerial Life and Social Sciences* with a wealth of new applications and examples drawn from newspapers and magazines It is this real life problem solving approach that makes calculus easier to understand Tan's concise inviting writing style and the wide variety of helpful in text learning features augments this text's user friendly feel Wherever possible the author uses an intuitive approach to present new mathematical concepts Results are often presented informally without compromising the mathematical content and accuracy to help students understand new material

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