

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

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