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:
$$f(x) = \ln\left(\cos(\sqrt[3]{x+2})\right).$$

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

b/ Find $k'(0)$ when $k(x) = \begin{cases} \dfrac{e^{3x}+x-1}{4x} & \text{if } x < 0 \\ \cos x & \text{if } x \geq 0 \end{cases}$

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

d/ Find b such that $h(x) = \begin{cases} \dfrac{e^{2x}-b}{x} & \text{if } x \neq 0 \\ 2 & \text{if } x = 0 \end{cases}$ 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): $y = \dfrac{3x+5}{x+1}$. 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

Dennis G. Zill

Calculus Chapter 3 Review:

SSG- PRECALC WITH CALC PREVS EXPND STUDENT RES MANUAL 4 Dennis G. Zill,Jacqueline M. Dewar,2009-06-19 *An Introduction to the Mathematics of Financial Derivatives* Ali Hirsa,Salih N. Neftci,2013-12-18 An Introduction to the Mathematics of Financial Derivatives is a popular intuitive text that eases the transition between basic summaries of financial engineering to more advanced treatments using stochastic calculus Requiring only a basic knowledge of calculus and probability it takes readers on a tour of advanced financial engineering This classic title has been revised by Ali Hirsa who accentuates its well known strengths while introducing new subjects updating others and bringing new continuity to the whole Popular with readers because it emphasizes intuition and common sense An Introduction to the Mathematics of Financial Derivatives remains the only introductory text that can appeal to people outside the mathematics and physics communities as it explains the hows and whys of practical finance problems Facilitates readers understanding of underlying mathematical and theoretical models by presenting a mixture of theory and applications with hands on learning Presented intuitively breaking up complex mathematics concepts into easily understood notions Encourages use of discrete chapters as complementary readings on different topics offering flexibility in learning and teaching **Student Solutions Manual for Stewart's Calculus: Solutions to odd-numbered exercises** Daniel Anderson,1987 **Student Solutions Manual for Applied Calculus** Soo T. Tan,1999 Includes complete solutions to all odd numbered problems in the text Physical Review ,1897 Vols for 1903 include Proceedings of the American Physical Society **Calculus, Student Study Guide** Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1999-03-30 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions **Precalculus** Cynthia Y. Young,2017-11-07 Precalculus was developed to create a program that seamlessly align with how teachers teach and fully supports student learning Cynthia Young s goal was to create an intuitive supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for Calculus Precalculus helps bridge the gap between in class work and homework by mirroring the instructor voice outside the classroom through pedagogical features **Young, Precalculus, Third Edition** Cynthia Y. Young,2021-06-21 Precalculus was developed to create a program that seamlessly aligns with how teachers teach and fully supports student learning Cynthia Young s goal was to create an intuitive supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for calculus Precalculus helps bridge the gap between in class work and

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- Integration of Multimedia Elements
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