

Each section's problems are due the class period after the section is covered in class and will not be accepted late.

5.1 a. Find  $y'$  for  $y = \frac{\sqrt{x^2 + 1}}{x(2x^3 - 1)^2}$  (Use logarithmic differentiation.)

b. Find an equation for the tangent line to the graph of  $f(x) = \ln(x^2 - 3)$  at the point where  $x = 2$ .

5.2 a. Integrate:  $\int \frac{x+5}{x-1} dx$

b. Evaluate the integral:  $\int \frac{9x^2 - 9x + 9}{x^2 + 1} dx$

c. Evaluate the integral:  $\int \frac{\cos^2 x - \sin x}{\cos^3 x} dx$

5.3 a. Show that  $f(x) = \sqrt[3]{3x^3 - 1}$  is one-to-one, and calculate  $f^{-1}(x)$ .

b. Prove that  $f(x) = x^2 + 2x - 1$  has an inverse function (use Thm 5.7)

Then, use Thm 5.9 to find the slope of the tangent line to  $f^{-1}(x)$  at the point  $(2, 1)$ .

5.4 a. Find  $y'$  for  $y = e^{\cos x^2}$

b. Find  $\frac{dy}{dx}$  :  $x^2 e^y + 2 = xy^2$

c. Integrate:  $\int \frac{e^{\frac{1}{x+1}}}{(x+1)^2} dx$

5.5 a. Find the derivative:  $y = \frac{x^2}{3^x}$

b. Find the derivative:  $y = x^2 \log_3 \sqrt{x^2 + 1}$

5.6 Evaluate the limits: a.  $\lim_{x \rightarrow 0} \frac{e^{x^2} - 2x^3 - 1}{5x^3}$

b.  $\lim_{x \rightarrow \frac{\pi}{2}^-} (1 + \cos 3x)^{\tan x}$

5.7 a. Find  $\frac{dy}{dx}$  for  $y = x \arctan \sqrt{x}$

b. Find  $\frac{dy}{dx}$  for  $y = \frac{1}{2} \ln(x^2 - 9) + \arcsin\left(\frac{x}{3}\right)$  Simplify completely.

5.8 a. Evaluate the definite integral:  $\int_0^3 \frac{x+3}{x^2+9} dx$

b. Integrate:  $\int \frac{dx}{\sqrt{8+2x-x^2}}$

5.9 a. Differentiate:  $f(x) = \ln(\operatorname{sech} x^2)$

b. Integrate:  $\int x \cosh^2 x^2 \sinh x^2 dx$

c. Evaluate the definite integral:  $\int_0^1 \frac{1}{9-4x^2} dx$

# Calculus Homework Solutions

**J Ma**



## Calculus Homework Solutions:

## **Calculus Homework Solutions** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Calculus Homework Solutions**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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