

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

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