

Student Name: _____ Student Number: _____ Serial No.: _____
Instructor: M. Z. Abu-Sbeih Math - 132.1 Quiz No. 2 Date: 18-3-2006.

Problem 1: Find the derivative of $f(x) = e^{2x} + 3^{(x^2+1)} + \log_3 \sqrt{x+1}$

Problem 2: Find the slope of the line tangent to the graph of $y = \frac{x(x^2+1)^3}{(x^3+1)^2}$.

Problem 3: Find $y^{(5)}$ if $y = (x+1)^4 - e^{2x}$.

Problem 4: Find y' at the point (2,1) if $2xy + y^2 = 5$.

Student Name: _____ Student Number: _____ Serial No.: _____
Instructor: M. Z. Abu-Sbeih Math - 132.3 Quiz No. 2 Date: 18-3-2006.

Problem 1: Find the derivative of $f(x) = e^{(x^2+1)} + 3^{2x} + \log_2 \sqrt{x+1}$

Problem 2: Find the slope of the line tangent to the graph of $y = (2x+1)^{5x}$.

Problem 3: Find $y^{(5)}$ if $y = x^4 - e^{2x}$.

Problem 4: Find y' at the point (2,1) if $x^2y^2 + y = 5$.