Math 229
Extra Credit Assignment 2
Due: 06/30/2008

1. **Read:** pages 847-849 in your text (the material on logarithmic differentiation)

2. Work the following logarithmic differentiation problems:

   (a) $f(x) = (3x^2 + 1)^5 (x^2 - 1)^{\frac{3}{2}}$

   (b) $g(x) = (3x - 2)^4 (x^2 - 3x)^{\frac{5}{2}} (x^3 - 1)^{\frac{4}{3}}$

   (c) $h(x) = (3x + 4)^{2x}$

Note: You must return your completed by Monday June 30th at 4:00pm to receive credit for this assignment. This assignment is worth up to 6 points, depending on the completeness and acuracy of your solutions.