

# Quiz 9

MATH 139-02  
Thursday, March 4, 2004

Differentiate each function. Be sure to show all appropriate work.

1.  $f(x) = (5x^3 - 7x^2 + 4)^6$

2.  $f(x) = \ln(1 - x^4)$

3.  $f(x) = (x^2 + 4)e^{2x}$

4.  $f(x) = \frac{x + 1}{x - 1}$