

# Quiz 11

MATH 139-01 and -02  
Monday, October 13, 2003

Be sure to **show your work**. Unsupported answers receive no credit.

Compute the derivative of each function.

1.  $f(x) = x^2 e^x$

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

3.  $g(t) = 3t^2 - 6t + 2$

4.  $h(t) = e^{2t^2-3t}$

5.  $f(x) = (2x^3 - 8x + 4)^5$ .