

**Quiz 4****Calculus 1****10/7/03**

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. State the Quotient Rule.

2. Find the derivative of  $f(x) = x^3 e^x$ .

3. Find the derivative of  $h(r) = \frac{r^2}{2r+1}$ .