

Math 181

Quiz 7

Name: \_\_\_\_\_

October 4, 2002

Show all work for credit.

Leave all answers as exact answers unless otherwise stated.

1. Let  $f(x) = (x^2 + 17x - 42)^{754}$ . Find  $f'(x)$

2. Let  $h(z) = \sin(z^3)$ . Find  $h'(z)$

3. (Bonus) Let  $f(x) = \frac{e^{x^2}}{\cot(x)}$ . Find  $f'(x)$