

MATH 211- Quiz 4 - Fall 2001- NAME:

Show work to receive credit.

1. If 1200cm^2 of material is available to make a box with a square base and an open top, find the largest possible volume of the box.
2. Find f if $f'(x) = e^x - t^4 + \frac{6}{\sqrt{x}}$.
3. Find f if $f''(x) = x^2 + \cos x$, $f(0) = 2$ and $f'(0) = 3$.