

Math 2260

Quiz 4

February 20, 2007

Name: _____ (20 points total)

1. (10 points) Find the y -coordinate of the center of mass of a thin plate of constant density δ covering the region between the curve $y = x^2$ and the x -axis from $x = 1$ to $x = 2$.

2. (10 points) Evaluate $\int \sqrt[3]{x} \ln x \, dx$.