

Name: _____

Math 1B Quiz 4

July 8, 2008

GSI: Rob Bayer (for Theo Johnson-Freyd)

You have 20 minutes to complete this closed-note, open-chalkboard quiz. You must show your work.

1. (5 pts) Find the arclength of the curve $y = \frac{x^5}{10} + \frac{1}{6x^3}$ for $1 \leq x \leq 2$

2. (5 pts) Find the arclength of the curve $y = \ln(\sec x)$ for $0 \leq x \leq \pi/4$

Note: $\sin \frac{\pi}{4} = \cos \frac{\pi}{4} = \frac{1}{\sqrt{2}}$