

Math 181
Fall, 2008

Name _____

Homework #3

Due Wednesday, September 10
No late papers accepted! No excuses!

1. Find the area of the surface formed by revolving the graph of $f(x) = x^2$ on the interval $[0, \sqrt{2}]$ about the y-axis.

2. Find the arc length of the graph of $y = \ln(\cos x)$ on the interval $\left[0, \frac{\pi}{3}\right]$.

