

Math 222 Quiz 3

September 23, 2010

Your Name:

Your Section:

Instructions: Time is 15 minutes and the total score is 10 points. You can answer in attached papers if you like.

a). $\int \frac{y^4 + 2y^2 + y - 81}{y(y^2 + 9)} dy$ (Hint: Remember to check whether the fraction is improper or not.) (4 pts)

b). Find the area of the region bounded by $y = \frac{x^2}{\sqrt{1+x^2}}$, $x = 1$ and x-axis. (6 pts)