

Math 1A Quiz 9  
April 18th, 2008

Name \_\_\_\_\_ SID \_\_\_\_\_

1. Find the area of the largest rectangle with sides parallel to the coordinate axes which can be inscribed in the ellipse  $x^2 + \frac{y^2}{4} = 1$ .

2. Suppose you want to use Newton's Method to approximate  $\sqrt[3]{30}$ . Show all of the steps you would go through to get the third approximation,  $x_3$ .