

Math 152 Quiz #3
January 27, 2009

Name: _____

Show all work and simplify your answers as much as possible.

1. Evaluate the following integrals. (Remember: You can check your antiderivatives with differentiation.)

(a) (3 pts.) $\int 3 \sec^2(t) \tan(t) dt$

(b) (3 pts.) $\int_{-1}^1 \frac{x^4}{3 + x^5} dx$

2. (4 pts.) Find the area of the region bounded by $y = 2 - x^2$ and $y = x$ for $0 \leq x \leq 2$.