

Math 152 Quiz #3
January 26, 2010

Name: _____

Show all work on a separate sheet. Put a box around your final answer. No calculators are permitted.

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

(a) (3 pts.) $\int \frac{4 \cos(1/t^2)}{t^3} dt$

(b) (3 pts.) $\int_1^2 x \cdot (x-1)^8 dx$

2. (4 pts.) Find the area of the shaded region bounded by $y = \sin x$ and $y = -1$ as indicated below.

