

Math 181

Quiz 21

Name: _____

December 12, 2002

Show all work for credit.

Leave all answers as exact answers unless otherwise stated.

1. Find the area bounded by the following functions:

$$f(x) = x^2 - 2$$

$$g(x) = 7$$

$$x = 0$$

2. (Bonus) Evaluate $\frac{d}{dx} \int_a^x \sin(t^2 + 18t - 4) dt$