

11am

Quiz 8

Fall 2012

Your name: _____

Math 0220

Your TA's name: _____

No calculators, no notes, no books. Show all your work (no work = no credit). Write neatly. Simplify your answers.

1. [5 points] Evaluate the definite integral $\int_0^4 \sqrt{16 - x^2} \, dx$.

2. [5 points] Find the average value f_{ave} of the function $f(x) = 3x^2 - 2x$ on the interval $[1, 3]$.

bonus problem [5 points extra] Evaluate the definite integral $\int_0^2 \frac{x^3}{2} dx$ as a limit of its Riemann's sum. No credit be given if no Riemann's sum is used.