

Quiz 7

Quiz time limit: 20 min.

Spring 2015

Your name: _____

Math 0220

Your TA's name: _____

No calculators, no notes, no books are permitted.

SHOW ALL WORK (no work = no credit). Write neatly. Simplify your answers.

1. [5 points] Evaluate the integral

$$I = \int_1^e \frac{5 (\ln x)^4}{x} dx$$

2. [5 points] Find the average value of the function $f(x) = \frac{x}{e^x}$ on the interval $[0, 2]$.

bonus problem [5 points extra] Find $g'(t)$ if $g(t) = \int_{t^3}^2 \frac{\ln x}{x+1} dx$