12pm

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] Find an expression of the area under the graph of the function

 $f(x) = \frac{\ln x}{x^2}$, $3 \le x \le 7$ as a limit of its Riemann's sum. Use the right end points.

Do not evaluate the limit.

2. [5 points] Evaluate the definite integral $\int_{1}^{2} \frac{x + 5x^{7}}{x^{3}} dx$.

bonus problem [5 points extra] A stone was dropped off a cliff and hit the ground with a speed of 144 ft/s. What is the height of the cliff?