PRINT Your Name:

Quiz 1 — January 13, 2012 - Section 8 - 10:10 - 11:00

Remove everything from your desk except this page and a pencil or pen.

Circle your answer. Show your work. The quiz is worth 5 points.

Find $\int_1^2 \frac{e^{1/x}}{x^2} dx$.

Answer: Let u = 1/x. Then $du = -x^{-2}dx$. When x = 1, then u = 1. When x = 2, then u = 1/2. The integral is equal to

$$-\int_{1}^{1/2} e^{u} du = -e^{u} |_{1}^{1/2} = \boxed{e - \sqrt{e}}$$