Math 10B Midterm Exam 2 February 28, 2013

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Version A

Instructions

- 1. No calculators or other electronic devices are allowed during this exam.
- 2. You may use one page of notes, but no books or other assistance during this exam.
- 3. Write your Name, PID, and Section on the front of your Blue Book.
- 4. Write the Version of your exam at the top of the page on the front of your Blue Book.
- 5. Write your solutions clearly in your Blue Book
 - (a) Carefully indicate the number and letter of each question and question part.
 - (b) Present your answers in the same order they appear in the exam.
 - (c) Start each question on a new side of a page.
- 6. Read each question carefully, and answer each question completely.
- 7. Show all of your work; no credit will be given for unsupported answers.
- 0. (1 point) Carefully read and complete the instructions at the top of this exam sheet and any additional instructions written on the chalkboard during the exam.
- 1. (6 points) Evaluate the definite integral $\int_1^e \frac{\ln(z)^3}{z} dz$.
- 2. (6 points) Evaluate the indefinite integral $\int \frac{7x}{(x+2)(x-5)} dx$.
- 3. (6 points) Evaluate the improper integral $\int_2^\infty xe^{-x} dx$.
- 4. (6 points) Find the volume of the solid obtained by rotating the region bounded by $y=0, \ x=0, \ x=1, \ \text{and} \ y=\frac{1}{x+2}$ about the x-axis.