Notes on Exam 3, Math 141, Fall 2005

1. Exam 3 is Tuesday, October 25. Exam 3 covers sections 1.8, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.2, and 4.3. **Be certain to MASTER all of the assigned homework problems.**

2. The material on the old 141 exams which is covered on your exam 3:
   (a) Exam 1's:
   00: 1, 3, 5, 6, 8.
   99: 2, 3, 4, 5, 6, 7, 8, 9.
   96: 1, 2, 3, 5, 6, 7, 8.
   95: 2, 3, 7, 8, 9, 10, 11, 12, 13.
   (b) Exam 2's:
   05: 1, 2, 3, 4, 5.
   00: 1, 2, 3, 5, 6, 7, 8, 9, 10.
   99: 1, 2, 4, 6, 7, 8, 9, 10.
   96: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
   95: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.
   (c) Exam 3's:
   00: 1, 2, 7, 8.
   99: 5, 7, 8, 9.
   96: 1, 2, 4, 6.
   95: 2, 3, 4, 5, 11, 12.
   (d) Exam 4's:
   00: 4, 5.
   99: 7, 10.
   96: 10.
   95: 3, 7,
   (e) Final Exams:
   00: 1, 2, 3, 4, 5, 6, 7.
   99: 1, 4, 5, 6, 8, 11.
   96: 1, 2, 6 8, 9, 10, 19.
   95: 1, 2, 3, 4, 5, 6, 9.

3. The material on old 142 exams which is covered on your exam 3:
   (a) Exam 1's:
   98: 1, 7.
   00: 3, 6.
   01: 3, 6.
   02: 3, 6.
   Spring 04: 3, 4.
   Fall 04: 3, 4, 5.

(b) Exam 2's:

02: 7

Spring 04: 6

Fall 04: 3

(c) Exam 3's:

98: 2 This problem is the same as "Find $\lim_{n\to\infty}(1-\frac{1}{n})^{2n}$."

01: 6 This problem is the same as "Find $\lim_{n\to\infty}(\frac{n-3}{n})^{n}$."

02: 1 (This problem is the same as "Find $\lim_{n\to\infty} n\sin(\frac{1}{n})$"), 2 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-1}{n+1}\right)^{n}$").

Spring 04: 8, 9 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-1}{n+1}\right)^{n}$").

Fall 04: 6, 7 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n+3}{n}\right)^{n}$").

(d) Exam 4's:

02: 1 (This problem is the same as "Find $\lim_{n\to\infty} n\sin(\frac{3}{n})$").

Fall 04: 1 (This problem is the same as "Find $\lim_{n\to\infty} n\sin(\frac{1}{n})$").

(e) Final Exam's:

98: 11, 18.

00: 9, 10, 11, 12.

02: 8 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-3}{n}\right)^{3n}$").

Spring 04: 12 (This problem is the same as "Find $\lim_{n\to\infty}\left(1-\frac{1}{3n}\right)^{n}$"), 13.

Fall 04: 1, 14 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-1}{n}\right)^{n}$").