Notes on Exam 4, Math 141, Fall 2005

1. Exam 4 is Tuesday, November 22. Exam 4 covers sections 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 6.2, and 6.3. **Be certain to MASTER all of the assigned homework problems.**

2. The material on the old 141 exams which is covered on your exam 4:
   (a) Exam 1's:
   00: 6, 8.
   99: 2, 5, 6, 7, 9.
   96: 2, 6, 7, 8.
   95: 9, 10, 11, 12, 13.
   (b) Exam 2's:
   05: 1, 2, 3.
   00: 1, 2, 6, 8, 9, 10.
   99: 1, 7, 8, 9, 10.
   96: 3, 4, 5, 6, 7, 8, 9, 10.
   95: 2, 4, 5, 6, 7, 8, 9, 11, 12, 13.
   (c) Exam 3's:
   05: 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
   00: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
   99: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
   96: 1, 2, 3, 4, 5, 6, 7, 8.
   95: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
   (d) Exam 4's:
   00: 2, 4, 5, 6, 7.
   99: 5, 6, 7, 9, 10.
   96: 3, 4, 5, 6, 8, 9, 10.
   95: 3, 4, 5, 6, 7, 8, 9.
   (e) Exam 5's:
   96: 5, 7.
   (f) Final Exams:
   00: 2, 4, 5, 6, 7, 9, 10, 11, 12, 16, 17, 18.
   99: 1, 2, 5, 8, 9, 11, 13, 17, 18.
   96: 5, 6, 8, 9, 10, 11, 14, 18, 19.
   95: 2, 5, 6, 9, 10, 11, 13, 18, 19.

3. The material on old 142 exams which is covered on your exam 3:
   (a) Exam 1's:
   98: 1, 5, 6, 7, 9, 10.
   00: 1, 2, 3, 6, 7.
   01: 1, 2, 3, 6, 7, 8.

02: 1, 2, 3, 6, 7.
Spring 04: 1, 2, 3, 4, 5, 6, 10.
Fall 04: 1, 2, 3, 4, 5, 10.

(b) Exam 2's:
98: 2, 4, 7, 8.
00: 10.
01: 7.
02: 7, 10.
Spring 04: 2, 6, 10.
Fall 04: 3, 8.

(c) Exam 3's:
98: 2 This problem is the same as "Find $\lim_{n\to\infty}(1-\frac{1}{n})^{2n}$.", 7, 9.
00: 2, 5, 7.
01: 6 This problem is the same as "Find $\lim_{n\to\infty}(\frac{n-3}{n})^{n}$.", 7.
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: 3, 7, 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:
98: 9.
00: 11
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: 4, 10, 11, 18.
00: 9, 10, 11, 12.
01: 4, 13, 17.
02: 2, 8 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-3}{n}\right)^{3n}$ ").
Spring 04: 4, 6, 12 (This problem is the same as "Find $\lim_{n\to\infty}\left(1-\frac{1}{3n}\right)^{n}$ "), 13.
Fall 04: 1, 2, 6, 9, 14 (This problem is the same as "Find $\lim_{n\to\infty}\left(\frac{n-1}{n}\right)^{n}$ ").