Math 251 Final Exam--Extra Exam Preparation.

- 1. State the nth Term Test.
- 2. State the theorem regarding bounded sequences.
- 3. What does it mean for a series to be geometric?
- 4. How do you know when an infinite geometric series diverges/converges?
- 5. Integration problems from 8th edition pages 589-590: 1-11, 13, 19, 20, 26, 28, 33-37, 49, 55, 56. 9th edition pages 591-592: 1-13, 15, 21, 22, 28, 30, 35-39, 51, 57, 58
- 6. Limit Problems
 8th edition 73-76 from page 590.
 9th edition 75-78 from page 592.
- Express the following in terms of the exponential function: sinh(x), cosh(x), tanh(x), coth(x), sech(x), csch(x).
- Series problems (remember Justify your answers) from 8th edition page 689 nos. 41, 42, 44-51.
 9th edition page 690 nos. 43-59.

9. Power series problems from 8th edition pages 689-690: 57, 58, 65-70, 73-81, 83, 97, 98, 100. 9th edition pages 691-692: 65-66, 73-78, 81-89, 91, 105, 106, 108.

- 10. Solid of Revolution problems from 8th edition page 463-464 nos. 11-32.
 9th edition page 465-466 nos. 11-32.
- Arc Length problems from 8th edition page 483 nos.3-24.
 9th edition page 485 nos.3-26.
- 12. Parametric equations and polar coordinates from 8th edition pages 756-758:
 25-33, 37-44 (skip c), 47-50, 53-54 57-60 63-76 9th edition pages 756-758:
 25-35, 39-46 (skip c), 49-52, 55-56 59-62 65-80