

Math1220 Midterm 2 Review Problems  
Summer, 2007  
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Chapter 7 Review (pg 419-241)  
Concepts Test Problems #1 – 21 all  
Sample Test Problems #1-47 odd

Chapter 8 Review (pg 446-447)  
Concepts Test Problems #1-19 all  
Sample Test Problems #1-25 odd, 29, 33

The exam covers sections 7.1-7.6 (basically all of chapter 7) and 8.1-8.3.

You can bring one 8.5 x 11 inch paper of notes (on both sides, if you want) to use as a reference.

**Topics:**

- Integration
  - u-substitution
  - integration by parts
  - trigonometric substitutions
  - partial fraction decomposition
  - Trigonometric integrals needing Pythagorean identities or half-angle identities
- Indeterminate Limits (L'Hopital's Rule)
- Improper Integrals