

Math 1220 Midterm 2 Review Problems  
Kelly MacArthur

Chapter 7 Review (pg 419-241)

Concepts Test Problems #1 – 21 all

Sample Test Problems #1-47 odd and 4, 8, 12, 18, 20, 22

Chapter 8 Review (pg 446-447)

Concepts Test Problems #1-17 all

Sample Test Problems #1-25 odd, 29, 32, 35

The exam covers sections 7.2-7.6 and 8.1-8.3.

You can bring one 8.5x11 inch page of notes (on both sides, if you want) to use as a reference. No calculator is needed nor allowed.

**Topics:**

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