

# Math1220 Midterm 2 Review Problems

## Kelly MacArthur

Chapter 7 Review (pg 419-241)  
Concepts Test Problems #4 – 21 all  
Sample Test Problems #1-47 odd

Chapter 8 Review (pg 446-447)  
Concepts Test Problems #1-19 all  
Sample Test Problems #1-29 odd, 28, 31, 33, 37

The exam covers sections 7.3-7.6 and 8.1-8.4.

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
- Indeterminate Limits (L'Hopital's Rule)/Determinate Limits
- Improper Integrals