

Closing Today: HW\_7A, 7B, 7C (7.8, 8.1)

Midterm 2 is tomorrow, May 18

Covers: 6.4, 6.5, 7.1-7.5, 7.7, 7.8, 8.1

Allowed

- one sheet of handwritten notes
- TI-30X IIS Calculator
- Pencil (or black pen)

You are allowed to quote any integral from the table in 7.5 of the book (or my table that I posted online). You must show some work for all other integrals.

This is a test on integration. You should know exactly what is coming.

Page 1: Two “hard” integrals

Page 2: Two “hard” integrals

Page 3: Two “hard” integrals

Page 4: Likely something from

6.5, 7.7, 7.8 and/or 8.1

Page 5: Likely something from 6.4.

All integration methods **will** appear!

1. by parts
2. trig - be ready for any case
3. trig sub - be ready for any case
4. partial fractions
5. substitution

The same algebraic/precalc techniques from homework **will** appear on the test!

1. completing the square
2. dividing polynomials
3. simplifying trig
4. triangle trick for trig
5. simplifying exponentials
6. simplifying roots