Math 142 - Suggested Study Problems for Midterm 2

Here are examples of problems similar to ones that might be on the exam.

- **Volume Integrals** Cht. 7 review # 21, 25
  Review the methods for disks, washers, and shells.

- **Arc Length** Cht. 7 review # 33

- **Integration by Parts** Cht. 8 review # 9, 11, 13, 15
  You must memorize the integration by parts formula, it won't be on the formula sheet!

- **Trig Integrals and Trig Substitution** Cht. 8 review # 19, 25, 27
  Review reference triangles.

- **Partial Fractions** Cht. 8 review # 33, 35, 37

- **Unspecified Integrals** Cht. 8 review # 49, 51, 61, 65
  For most integrals, you will have to figure out what technique to use.

- **L'Hospital's Rule** Cht. 8 review # 73, 75, 77