# Math 142 - Midterm 2 Suggested Study Problems

Here are problems that are similar to the ones you might see on the exam.

**Volumes of Revolution** Cht. 7 review # 25, 30
> *There will be a volume of revolution problem using the shells method on the test.*

**Arc Length** Cht. 7 review # 33
> *The formula for arc length will be on the formula sheet.*

**Work** Cht. 7 review # 39, 41, 43

**Integration by Parts** Cht. 8 review # 9, 13, 17, 33* 65
> *Make sure you know the formula! It is too important to be on the formula sheet.*

**Tabular Integration** Cht. 8 review # 15

**Trigonometric Integrals** Cht. 8 review # 19, 21
> *Review the rules of thumb for these.*

**Trig Substitution** Cht. 8 review # 27, 37, 33*

**Partial Fractions** Cht. 8 review # 35, 39

**L'Hospital's Rule** Section 8.7 homework.