

Math 181
Fall, 2008

Exam 3

Exam 3 will cover Chapter 10 and Chapter 11.

You can use a calculator on the entire exam – but remember, NO WORK = NO CREDIT!

You must be able to

- Find the area between two polar regions
- Find the area of a polar region
- Find the arc length of a curve
- Find the surface area of a solid generated by revolving a region bounded by a polar curve about an axis of revolution.
- Determine whether or not a sequence converges or diverges.
- Determine whether or not a series converges or diverges and tell which test you used to make that determination.
- Find the radius and interval of convergence for a power series.
- Find a power series.
- Find a Taylor or Maclaurin series using definition.
- Use a Taylor or Maclaurin series to find another series.
- Find a binomial series.
- Use a Taylor or Maclaurin series to find limits, integrate, find derivatives, etc.

I will be in the classroom by 9:00 – if you want to get started early.

Keys for Homework that was due on Wednesday will be on my office door.

Joan Sholars