

Final is Saturday, June 3rd

Kane 130

5:00-7:50pm

BA/BB (Jordan) – Balcony

All other sections – Main Floor

**Before you go to the exam write down
your quiz section and TA's name!**

Allowed:

- One 8.5 by 11 inch sheet of **handwritten** notes (front and back).
- A **Ti-30x IIS Calculator**

Nine pages of questions.

Comprehensive.

Quick Review:

Ch. 12: 3D Basics.

vector facts, lines, planes,
basic surfaces, ...

Ch 10/13: 2D and 3D Curves.

accel/vel/position, tangent,
normal, binomial, tangent line,
polar, ...

Ch 14/15: 3D Surfaces.

traces, partial deriv, max/min,
double integrals, ...

Taylor: Taylor Polynomials and Series.

finding Taylor polynomials,
error bounds, substituting into
Taylor series we derived,...

Closing Thurs: TN 5 (Last HW)
Final: Saturday, 5-7:50pm, Kane 130

Entry Tasks

(a) Give the Taylor series and the first four nonzero terms for

$$\int e^{-x^2} dt$$

(b) **From HW:** Write down the Taylor series for $\sin(t)$ based at 0. Then use it to give the Taylor series for

$$\int_0^x \frac{\sin(t)}{t} dt$$