## Study guide for the 4th term test.

## Coverage:

- All the earlier material
- Trigonometric functions. (Handout "Definitions of sine and cosine") (Also: Spivak's Chapter 15, from p.303 to the middle of p.305, and from the middle of p.308 to the end of the chapter)
- Integration techniques. (Spivak's Chapter 19)
- Volume and surface area of bodies of revolution. (Appendix to Spivak's Chapter 19)
- Infinite sequences. (Spivak's Chapter 22; handout "Lim-sup and lim-inf")
- Infinite sequences and series. (Spivak's Chapter 23; handout "Criteria for convergence of series)
- Uniform convergence the definition, and Weierstrass's M-test. (Notes from the lectures; parts of Spivak's Chapter 24; parts of the handout on uniform convergence)

If you will need to use the axioms for the real numbers, then I will provide them.

## Sources.

- Your notes from class
- Your notes from tutorial
- Yael's notes from class
- Spivak's textbook
- Handouts on course website
- Weightless assignments
- For-credit assignments