Topology – MATH 290 A/B/C

Topics for 2025 Qualifying Exam

<u>290A:</u>

https://mathweb.ucsd.edu/~ssam/290A/notes-290A.pdf

<u>290B</u>

Chapter 3 on cohomology in Algebraic Topology, by Allen Hatcher https://pi.math.cornell.edu/~hatcher/AT/AT.pdf

More specifically: 3.1 Cohomology groups 3.2 Cup products 3.3 Poincare duality

<u>290C</u>

Intersection theory on manifolds, basic homotopy theory up to and including Whitehead's theorem and the Hurewicz theorem