

# MATH5665: Algebraic Topology- Course notes

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## Abstract

These are the lecture notes for an Honours course in algebraic topology. They are based on standard texts, primarily Munkres's "Elements of algebraic topology" and to a lesser extent, Spanier's "Algebraic topology".

## 1 What's algebraic topology about?

**Aim lecture:** We preview this course motivating it historically.

Recall that a continuous map  $f : X \rightarrow Y$  of topological spaces is a *homeomorphism* if it is bijective and  $f^{-1}$  is also continuous. In this case we say  $X$  and  $Y$  are *homeomorphic* and write  $X \simeq Y$ .

**Major Q** in topology is how to determine if two spaces  $X, Y$  are homeomorphic or not.

**A** depends on whether they are homeomorphic or not. If they are, one usually guesses the homeomorphism. If not, one needs to be a bit more sophisticated. One usually uses *invariants* to distinguish them. Historically, the first example is below.

### Euler Characteristic

**Notation 1.1** We denote the  $n$ -dim unit ball by  $B^n := \{v \in \mathbb{R}^n \mid \|v\| \leq 1\}$  and the  $n$ -dim unit sphere by  $S^n := \{v \in \mathbb{R}^{n+1} \mid \|v\| = 1\}$ .

Consider a regular polyhedron  $K \subset \mathbb{R}^3$  or more generally, any polyhedron homeomorphic to the unit sphere  $S^2$ . Let  $V$  = no. vertices,  $E$  = no. edges and  $F$  = no. faces.

**Theorem 1.2 (Euler)**  $V - E + F = 2$ .

**E.g.** Check the cube, tetrahedron etc.

The quantity  $e(K) := V - E + F$  is called the *Euler number* of  $K$ .

### Quotient spaces

Let  $X$  = topological space and  $\sim$  be an equivalence relation on the underlying set so there is a set map  $\pi : X \rightarrow X/\sim : x \mapsto [x]$  where  $X/\sim$  is the set of equivalence classes  $[x]$ . We put the strongest topology on  $X/\sim$  so that  $\pi$  is continuous, viz,  $U \subset X/\sim$  is open iff  $\pi^{-1}(U)$  is open. The resulting topological space is called the *quotient space*.

**E.g.** Let  $I = [0, 1] \subset \mathbb{R}$  and  $X = I \times I$ . We put the weakest equivalence relation on  $X$  s.t.  $(0, x) \sim (1, x), (x, 0) \sim (x, 1)$  for  $x \in I$ . We sometimes sum up this info in the following picture:



# Elements Of Algebraic Geom Typed Notes

**JL Elias**



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