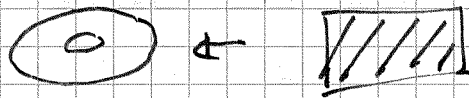


Generell topologi

Introduktion

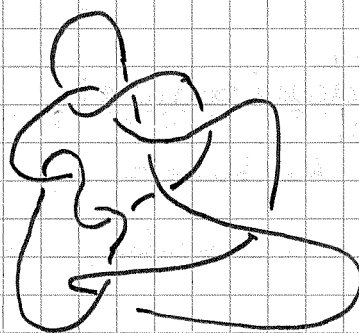
- 1 How to obtain a doughnut from a solid square



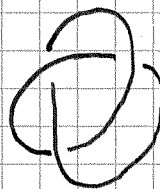
by "gluing"

- 2 How to prove that a knot cannot be untied

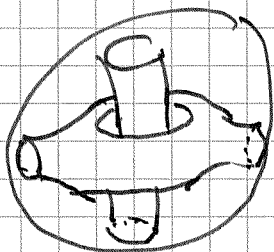
can be untied:



cannot be untied:

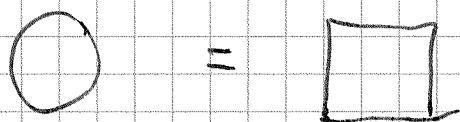


- 3 How to prove by "surgery" that a doughnut with three holes is "the same" as a "hollow sphere with tunnels"



- 4 Lots of "bending and stretching"

A circle is "the same" as a square





is "the same" as

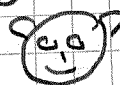


geezers:



not "the same" as

geezers



Theme: Learn to think topologically
and to match this intuition to
rigorous argument

Organisation: Plan for the course

1) lectures 1-16

(roughly): foundation of topology
(topological spaces,
subspace/product/quotient topologies,
continuous maps, Connectedness,
Separation axioms, compactness)

2) lectures 17-22: knot theory

3) lectures 23-28: Surfaces