

# Topology, Assignment 4

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**Lemma 1.** *Given two line segments whose lengths are  $a$  and  $b$  respectively there is a real number  $r$  such that  $b = ra$ .*

*Proof.* To prove it by contradiction try and assume that the statement is false, proceed from there and at some point you will arrive to a contradiction.  $\square$

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