$\begin{array}{c} {\rm Mathematics~GU4051~Topology} \\ {\rm Assignment}~\#~12 \end{array}$

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Problem 1.

Problem 2.

(a)

Proof.

(b)
(c)
Problem 3.
(a)
(b)
Problem 4.
(a)
(b)
Problem 5.
Problem 6.
Lemmas
Lemma 0.1.