

## Math 6510 - Homework 2

Due at 4 PM on 9/24/04

1. Show that  $TS^1$  is homeomorphic to  $S^1 \times \mathbb{R}$ .
2. Show that an  $n$ -dimensional vector bundle is trivial if and only if it has  $n$  linearly independent sections.
3. GP - 1.4 #10,11a, 1.5 #2