

**MAT 566: Differential Topology
Fall 2006**

Problem Set 2

Due on Tuesday, 10/10, by 5pm in Math 3-117

Do 7-C plus any *one* of the following problems: 5-B,5-E,6-B,7-A,7-B.

Remark: Problem 7-C is an example of the *Splitting Principle*: if a natural formula involving characteristic classes holds for split vector bundles (i.e. direct sums of line bundles), then it holds for all vector bundles.