**Math 151c, Spring 2011**

1. Construct an immersion of $T^3-$point in $\mathbf{R}^3$.

2. Show that the tangent bundle of $S^2 \times S^1$ is trivial by constructing three independent vector fields.

3. For Boy's surface (i.e. the immersion of the projective plane in $\mathbf{R}^3$ with one triple point) draw the preimage of the self-intersection locus as a graph on a projective plane.