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This is a self contained set of lecture notes. The notes were written by Rob van der Vorst. The solution manual is written by Guit-Jan Ridderbos. We follow the book 'Introduction to Smooth Manifolds' by John M. Lee as a reference text.

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This book is about smooth manifolds. In the simplest terms, these are spaces that locally look like some Euclidean space Rn, and on which one can do calculus. The most familiar examples, aside from Euclidean spaces themselves, are smooth plane curves such as circles and parabolas, and smooth surfaces R3 such as spheres, tori, paraboloids, ellipsoids, and hy-perboloids.

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A smooth covector field is a smooth mapping q: M !T⇤M, with the property that pq = id. M. In order words q is a smooth section in T⇤M. The space of smooth covector fields on M is denoted by F⇤(M). Usually the space F⇤(M) is denoted by G1(M), and covector fields are referred to a (smooth) differ- ential 1-form on

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