

**introduction to smooth manifolds - unito** - 2 1. smooth manifolds want to call a curve smooth" if it has a tangent line that varies continuously from point to point, and similarly a smooth surface" should be one that has a tangent plane that varies continuously from point to point. but for more sophisticated applications, it is an undue restriction to require

**introduction to differentiable manifolds** - introduction to differentiable manifolds lecture notes version 2.1, november 5, 2012 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 [1].

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**chapter 1. smooth manifolds - wj32** - chapter 1. smooth manifolds theorem 1. [exercise 1.18] let  $M$  be a topological manifold. then any two smooth atlases for  $M$  determine the same smooth structure if and only if their union is a smooth atlas. proof. suppose  $\mathcal{A}_1$  and  $\mathcal{A}_2$  are two smooth atlases for  $M$  that determine the same

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**selected hw solutions - uh** - math 7350 selected hw solutions page 2 of 30 hw 1, #2. (lee, problem 1-6). distinct smooth structures let  $M$  be a nonempty topological manifold of dimension  $n \geq 1$ . if  $M$  has a smooth structure, show that it has uncountably many distinct ones. [hint: first show that for any  $s > 0$ ,  $f_s(x) = \frac{1}{s} \int_0^s f(x) dx$  is a

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