

## Solutions John Lee Smooth Manifolds

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John M. Lee's Introduction to Smooth Manifolds. Click here for my (very incomplete) solutions.

Topics: Smooth manifolds. Prerequisites: Algebra, basic analysis in  $\mathbb{R}^n$ , general topology, basic algebraic topology. Great writing as usual, with plenty of examples and diagrams where appropriate.

Chapters 6 (Sard's Theorem) and 9 (Integral Curves ...

Mathematics – wj32

CORRECTIONS TO Introduction to Smooth Manifolds (Second Edition) BY JOHN M. LEE

DECEMBER 2, 2020 (8/8/16) Page 6, just below the last displayed equation: Change  $\xi$  to  $\xi_1$ , and in the next line, change  $\xi$  to  $\xi_1$ . After "(Fig. 1.4)," insert "with similar interpretations for the other charts."

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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  $s > 0$ ,  $F_s(x) = \int_0^s x dx = \frac{1}{2} s^2 x^2$  is a smooth structure on  $\mathbb{R}^n$  that is not the standard one.]

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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. Additional reading and exercises are take from 'An introduction to manifolds' by Loring W. Tu.

## INTRODUCTION TO DIFFERENTIABLE MANIFOLDS

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