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Spivak's Calculus On
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Manual Thomas

Hughes August 2017.

Chapter 1 Functions on
Euclidean Space

1.1 Prove that $\|x\|^2 = \sum_{i=1}^n x_i^2$
Proof. If $\{e_1, e_2, \dots, e_n\}$ is the usual
basis on \mathbb{R}^n , then we
can write $x = x_1 e_1 + x_2 e_2 + \dots + x_n e_n$ and
thus $\|x\|^2 = \sum_{i=1}^n x_i^2 = \sum_{i=1}^n \|x_i e_i\|^2 = \sum_{i=1}^n x_i^2$

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Step1: We divide the
square $[0;1] [0;1]$ into
four equal squares by

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connecting $(1, 2; 0)$ and $(0; 1, 2)$, $(0; 1, 2)$ and $(1; 1, 2)$. We place on point in each of the squares and make sure no two points are on the same horizontal or vertical line. Step n : We divide each of the squares obtained in Step $(n-1)$ into four equal squares.

Calculus on Manifolds Solution of Exercise Problems

From this and the

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Fundamental Theorem of Calculus it follows directly that $[F'(y) = \int_a^b D_2f(x,y) dx]$. Note that the use of Fubini's Theorem here didn't require that (D_2f) be continuous. Indeed, the exchange of the derivative ordering required only that both functions $(g(x) = D_2f(x,y))$ and $(g(y) = D_2f(x,y))$ be integrable, so that appropriate lower and upper integrals from

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the theorem are equal.

Solutions and Comments: Spivak's "Calculus on Manifolds"

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Solutions. Apostol)

$(f(x, y_1) = f(x, y_2))$
for all (y_1, y_2) . That
is, (f) is independent
of the second variable.
If in addition

$(D_1 f = 0)$, then (f) is
constant in both
variables by similar

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reasoning.

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Solution Manual
for Spivak (1965) Jianfei
Shen School of
Economics, The
University of New
South Wales Sydney,
Australia 2010

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R be the functions such
that $s_1 \in C^k; \dots; s_n \in C^k$

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are the solutions of the equations $X^n + a_{j-1}x^{j-1} + \dots + a_1x + a_0 = 0$; $i = 1, \dots, n$; $j = 1, \dots, n$. Show that s_i is differentiable and find $s_i'(t)$. Proof. (a) It is easy to see that $\det W \neq 0$.

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revised on 2000-01-10.

Abstract This is a solution manual of selected exercise problems from Calculus on manifolds: A modern approach to classical theorems of advanced calculus, by Michael Spivak.

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by one-variable

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calculus (in particular the Mean Value Theorem, see e.g. Apostol) $f(x, y_1) = f(x, y_2)$ for all (y_1, y_2) . That is, f is independent of the second variable. If in addition $(D_1 f = 0)$, then f is constant in both variables by similar reasoning.

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Analysis on Manifolds
Solution of Exercise
Problems Yan Zeng
Version 0.1.1, last
revised on 2014-03-25.

Abstract This is a
solution manual of
selected exercise
problems from Analysis
on manifolds, by James
R. Munkres [1]. If you
find any typos/errors,
please email me at
zypublic@hotmail.com.

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"Analysis on Manifolds" is a leisurely (more than twice as long as Spivak) and well-motivated exposition of much of the same topics as "Calculus on

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Manifolds" and even a few advanced topics like de Rham groups and manifolds in spaces other than \mathbb{R}^n and uses figures throughout to aid in explaining geometric concepts.

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summary, "Calculus on Manifolds" is a book of historical interest and reading it is part of becoming immersed in the "culture" of mathematics.

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