

## Spivak Calculus On Manifolds Solutions

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### Spivak Calculus On Manifolds Solutions

Spivak's Notation Spivak denotes points in a Euclidean space as row vectors in text, however used in matrix equations -- for example, top of Page 4 -- they can magically turn into column vectors. This can be confusing and while reading the book one must always remember to think of vectors as points in an abstract space, not as of 'rows' or ...

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

Yan Zeng Version 1.0, last 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. If you would like to correct any typos/errors, please send email to zypublic@hotmail.com.

### Calculus on Manifolds Solution of Exercise Problems

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3-4. Let  $f: A \rightarrow \mathbb{R}$  and let  $P$  be a partition of  $A$ . Show that  $f$  is integrable if and only if for each subrectangle  $S$  the function  $f|_S$ , which consists of  $f$  restricted to  $S$ , is integrable, and that in this case  $\int_A f = \sum \int_S f|_S$ .

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4 CHAPTER 1 FUNCTIONS ON EUCLIDEAN SPACE IExercise 8 (1-8). If  $x, y \in \mathbb{R}^n$  are non-zero, the angle between  $x$  and  $y$ , denoted  $\angle(x, y)$ , is defined as  $\arccos \frac{x \cdot y}{\|x\| \|y\|}$ , which makes sense by Theorem 1-1 (2). The linear transformation  $T$  is angle preserving if  $T$  is 1-1, and for  $x, y \neq 0$  we have  $\angle(Tx, Ty) = \angle(x, y)$ . a. Prove that if  $T$  is norm preserving, then  $T$  is angle preserving. b. If there is a basis  $x$

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