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I'm studying the classical Do Carmo's differential geometry book and I didn't understand the solution he gives to the item b of the following question: THE SOLUTION: MY DOUBTS: I couldn't conclude  $\frac{d\alpha'(s_1)}{ds_1} = \frac{1}{k}$ . I didn't understand either why this follows that  $\frac{d\alpha'(s_1)}{ds_1} = \frac{1}{k}$ .

calculus - I didn't understand this solution from Do Carmo ...

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This simplifies to  $x^2 + y^2 + z^2 = 1$  as in Figure 1-10 in do Carmo. The dashed curve in the figure is defined by the same formula with  $t = (\cos t, \sin t, 0)$ . 6. 1.3-6 The curve  $\alpha(t) = (e^{-t} \cos t, e^{-t} \sin t)$  has velocity vector  $\alpha'(t) = e^{-t}(-\cos t - \sin t, -\sin t + \cos t)$  and speed  $|\alpha'(t)| = 2e^{-t}$ .  $\alpha(0) = (1, 0)$ ,  $\alpha'(0) = (-1, 1)$ .

Homwework - UW-Madison Department of Mathematics

(3) Manfredo P. do Carmo, "Differential geometry of curves and surfaces" : Prentice-Hall 1976 (QA 641 C2). [More traditional approach. Lots of examples.] (4) Barrett O'Neill, "Elementary differential geometry" : Academic Press 1 1966 (QA 641 O6). [More general introduction to classical differential geometry, with sections on curves and surfaces.]

MA3D9 : Geometry of curves and surfaces ... - Warwick Insite

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metrics on surfaces (the first fundamental form of a surface, distances and areas on surfaces, isometries and conformal maps, examples)

MATH431/831 Course Home Page - University of Regina

"Differential Geometry by Do Carmo is a classic. It is great to see Dover update and publish it." About The Text The presentation departs from the traditional approach with its more extensive use of elementary linear algebra and its emphasis on basic geometrical facts rather than machinery or random details.

Differential Geometry of Curves and Surfaces: Revised and ...

The treatment begins with a chapter on curves, followed by explorations of regular surfaces, the geometry of the Gauss map, the intrinsic geometry of surfaces, and global differential geometry. Suitable for advanced undergraduates and graduate students of mathematics, this text's prerequisites include an undergraduate course in linear algebra and some familiarity with the calculus of several variables.

Differential Geometry of Curves and Surfaces: Revised and ...

In Manfredo Do Carmo's Differential Geometry of Curves and Surfaces, Section 1-2, he asks: Let  $\alpha: I \rightarrow \mathbb{R}^3$  be a smooth curve that does not pass through the origin. If  $\alpha(t_0) \in \alpha[I]$  is the point at which  $\alpha(t)$  is closest to the origin and  $\alpha'(t_0) \neq 0$ , then  $\angle(\alpha(t_0), \alpha'(t_0)) = 0$ .

differential geometry - Question in Do Carmo 1-2 ...

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Problems And Solutions In Differential Geometry And ...

"Differential Geometry: Curves - Surfaces - Manifolds" (2nd edition) by Wolfgang Kuhnel; References "Differential Geometry of Curves and Surfaces" by Manfredo do Carmo "Differential Forms and Applications" by Manfredo do Carmo; Pre-class Notes. Course Outline (revised on Oct 12) Study Guide for Final Exam; Lecture Notes

MATH4030 - Differential Geometry - 2015/16 | CUHK Mathematics

Yet, there must still be some market for books like this, because several have recently appeared, including a second edition of Differential Geometry of Curves and Surfaces by Banchoff and Lovett and another book with the same title by Kristopher Tapp. Most books with titles like this offer similar content. This one is no exception.

Differential Geometry of Curves and Surfaces ...

ERRATA IN DO CARMO, DIFFERENTIAL GEOMETRY OF CURVES AND SURFACES BJORN POONEN This is a list of errata in Do Carmo, Differential Geometry of Curves and Surfaces, Prentice- ... In the solution on p. 480, the inner integral in the definition of  $M_1$  should go from 0 to  $1/2$ , so  $M_1 = \dots$ .

ERRATA IN DO CARMO, DIFFERENTIAL GEOMETRY OF CURVES AND ...

Do Carmo. Differential Forms and Applications "This book treats differential forms and uses them to study some local and global aspects of differential geometry of surfaces. Each chapter is followed by interesting exercises. Thus, this is an ideal book for a one-semester course." ...

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