<u>Notes</u>

<u>Course</u>



<u>Dates</u>

<u>Help</u>

sandipan_dey ~

Next >

★ Course / Unit 2: Geometry of Derivatives / Problem Set 2A



You are taking "Exam (Timed, No Correctness Feedback)" as a timed exam. Show more

<u>Calendar</u>

Discussion



Previous

43:44:19





<u>Progress</u>

□ Bookmark this page

Problem Set A due Aug 18, 2021 20:30 IST Completed

2A-5

1.0/1 point (graded)

Find a unit vector normal to the line x+2y=2.

(Enter the vector in the form [a,b]. That is surround your vector by square brackets, and separate entries by a comma. Note that the entries of your vector must be numbers.)

[1/sqrt(5),2/sqrt(5)]

✓ Answer: [1/sqrt(5),2/sqrt(5)]

? INPUT HELP

Solution:

We saw in lecture that a vector perpendicular to the line x+2y=2 is given by $\langle 1,2 \rangle$. Normalizing this (dividing by its length) gives the unit normal vector

$$\langle \frac{1}{\sqrt{5}}, \frac{2}{\sqrt{5}} \rangle$$
.

Submit

You have used 1 of 5 attempts

Answers are displayed within the problem

3. Normal vectors to lines

Topic: Unit 2: Geometry of Derivatives / 3. Normal vectors to lines

Add a Post

Hide Discussion

Show all posts ✓ by recent activity ✓

✓ I have tried 2 ways but I get this one wrong for some reason

1. First method was the hidden dot product 2. Second method was to calculate the derivatives I get the same answer for both but th...

1/2

< Previous

Next >

© All Rights Reserved



edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

<u>Accessibility Policy</u>

Trademark Policy

<u>Sitemap</u>

Connect

<u>Blog</u>

Contact Us

Help Center

Media Kit

<u>Donate</u>















© 2021 edX Inc. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>