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sandipan_dey >

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☆ Course / Unit 2: Geometry of Derivatives / Recitation 6: Structured worked example



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



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Recitation due Aug 18, 2021 20:30 IST Completed

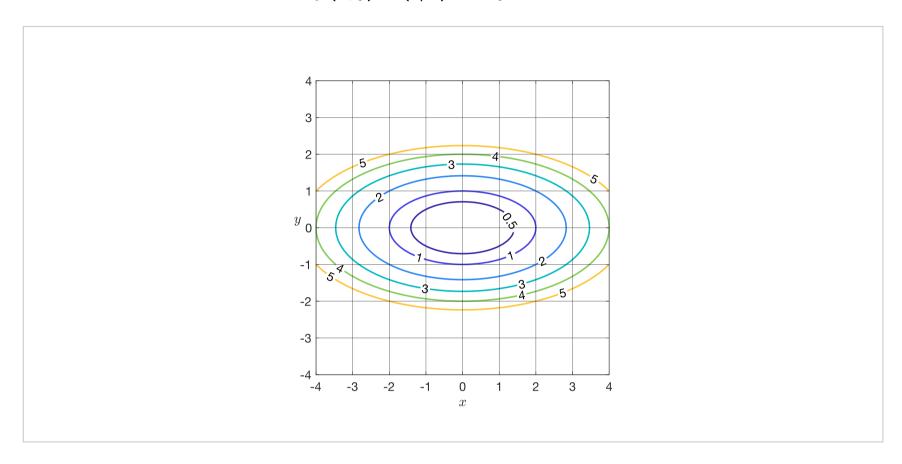


Synthesize

7.

1/1 point (graded)

Here is a picture of the level curves of $f\left(x,y
ight)=\left(1/4
ight)x^2+y^2$.



Notice that (2,0) and (0,-1) are both on the level curve of height 1.

Based on the picture, which is bigger?

 $\bigcirc \ |
abla f\left(2,0
ight) |$

 $igorup |
abla f\left(0,-1
ight)|$



Submit

You have used 1 of 1 attempt

1 Answers are displayed within the problem

8.

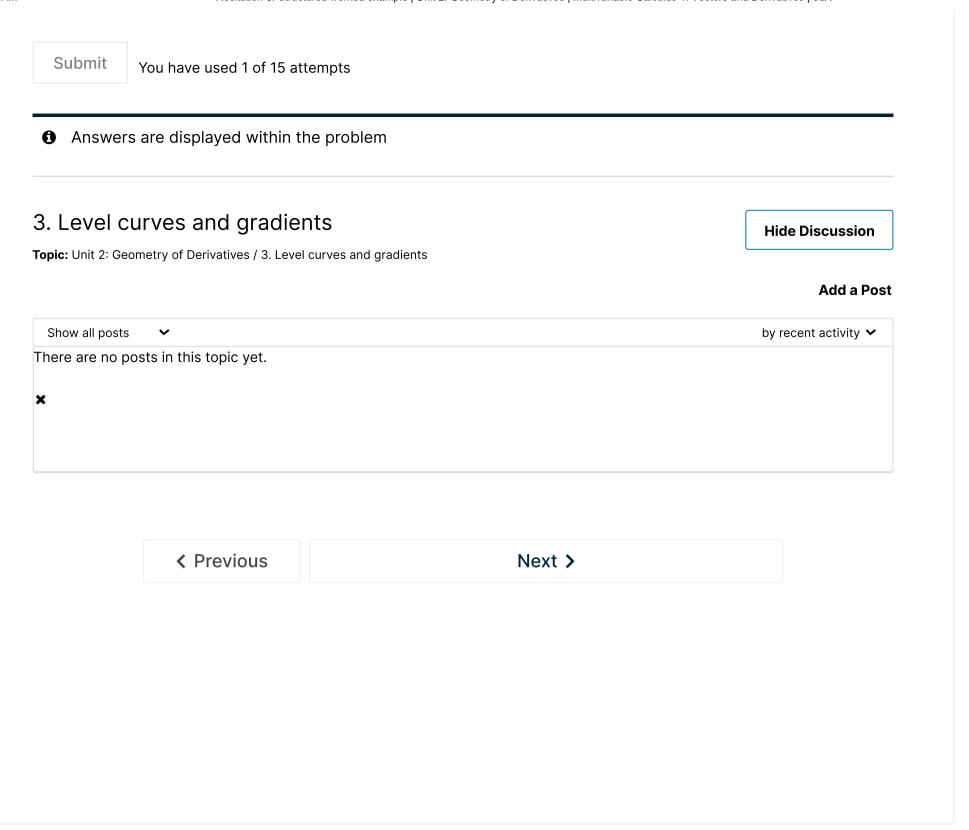
2/2 points (graded)

Compute |
abla f(2,0)| and |
abla f(0,-1)|.

|
abla f(2,0)|= 1 ightharpoonup Answer: 1

|
abla f(0,-1)|= 2 Answer: 2

Try to estimate the values of $|\nabla f(2,0)|$ and $|\nabla f(0,-1)|$ and check your estimates against the exact values found above. (If your estimates were off, can you determine where you made a mistak \blacksquare Calculator \nearrow Hide Notes



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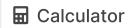
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