Homework 32 (Chap. 14.6), 59.00/110.00 (53.64%)

May 7, 2020

Problem 4 score: 0/10[1]

Directional derivative should be a single number. You have an expression.

Moreover, f_x is wrong (should be $y^3 - 2x$).

Problem 8 score: 10/10

(a) good

(b) good

(c) good

Problem 14 score: 4/10[2]

Directional derivative should be a single number. You have a vector.

To indicate the error more precisely, the one-before-the-last expression you wrote is

$$(6\mathbf{i} - 9\mathbf{j}) \left(\frac{3}{5}\mathbf{i} + \frac{4}{5}\mathbf{j} \right)$$

this should indicate a *scalar product*, which would indeed give you a single number. However, you have interpreted this expression rather strangely...

Problem 22 score: 0/10[3]

f_t is computed wrongly. Also, when you cite the Theorem (i.e. "According to the Theorem")¡++¿, please indicate the number of Theorem and/or page of textbook.

[1] similar problems: 5,6
[2] similar problems: 15,16
[3] similar problems: 23,24

Problem 27 score: 10/10

(a) good

(b) good

Problem 38 score: 0/10[4]

cannot find the solution

Problem 41 score: 10/10

good

Problem 51 score: 10/10

good

Problem 61 score: 10/10

good

Problem 65 score: 0/10[5]

You compute angle between plane and line in a wrong way.

Problem 68 score: 5/10[6]

(a) good

(b) you were asked to graph the function, not its level curves.

[4]similar problems: 39,40
[5]similar problems: 66,67
[6]similar problems: 69,70