

Advanced Calculus II: Assignment 5

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March 11, 2020

Problem 1.

Suppose f is differentiable at $c \in D$. By Corollary 39.7, we have,

$$Df(c)(u) = u_1 D_1 f(c) + \cdots u_m D_m f(c)$$

Problem 2.

Problem 3.

Problem 4.