DATA 605 - Discussion 15

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Table of Contents

Section 12.3, Exercise 28, Page 679

# 28.

Form a function such that and .

## Solution

Firstly, since the second partials are equal to each other (0 in this case), by Schwarz’s Theorem, exists.

If , then .

If , then .

Combining these, we get .

So our original function is .