

8.8 DOUBLE INTEGRALS

Definition 173 Let $f(x, y)$ be a continuous function defined on a bounded region B in the xy -plane and let

$$P = \{B_i : 1 \leq i \leq n\}$$

be a partition of B by lines parallel to the coordinate axes, and define the norm of P as $\|P\| = \max_{1 \leq i \leq n} d_i$ where

$$d_i = \sup \{d(x, y) : x, y \in B_i\},$$

$$\|P\| = \max_{1 \leq i \leq n} \{d(B_1), d(B_2), \dots, d(B_n)\}.$$

For each $1 \leq i \leq n$ pick any point $(x_i, y_i) \in B_i$ and form the following sum

$$\sum_{i=1}^n f(x_i, y_i) \nabla A_i$$

where ∇A_i is the area of B_i . Such a sum is called an approximating sum or Riemann sum. Roughly speaking the double integral

$$\iint_B f(x, y) dA$$

of f over B is defined to be the limit

$$\lim_{\|P\| \rightarrow 0} \sum_{i=1}^n f(x_i, y_i) \nabla A_i$$

In this case, we say that f is integrable on B .

Theorem 174 Suppose that f is integrable over the rectangle $R = \{(x, y) | a \leq x \leq b \text{ and } c \leq y \leq d\}$. Then we can write the double integral of f over R as either of the iterated integrals:

$$\iint_R f(x, y) dA = \int_a^b \int_c^d f(x, y) dy dx = \int_c^d \int_a^b f(x, y) dx dy.$$

Example 175 If $R = \{(x, y) | 0 \leq x \leq 1 \text{ and } 0 \leq y \leq 2\}$, then evaluate

$$\iint_R (x - y + 1) dA.$$

Solution Manual Of Double Integral

Richard B. Lane, Lane



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