

**Tipe Koleksi: Indeks Artikel Jurnal**

## **Sifat-sifat sederhana integral denjoy khusus di dalam $R^n$**

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### **Abstrak**

A function  $f$  is said to be Lebesgue integrable on  $[a,b] \subset \mathbb{R}$  if and only if there is a function  $F$  which is absolutely continuous on  $[a,b]$  such that its derivative  $F'(x)=f(x)$  almost everywhere on  $[a,b]$ . Denjoy defined his special Denjoy integral by a method of extension of the Lebesgue integral, i.e. a function  $f$  is said to be special Denjoy integrable on  $[a,b]$  if there is a function  $F$  which is continuous and ACG' on  $[a,b]$  such that its derivative  $F'(x)=f(x)$  almost everywhere on  $[a,b]$ .

This study was intended to generalize the special Denjoy integral in the real line to the Euclidean space  $R^n$ . The generalization was done to the definitions and properties of the special Denjoy integral. This study was based on the interval function on  $I(E)$ , the collection of a cell  $E \subset R^n$ . In doing such a generalization, we always maintained that the definitions and properties in the real line were kept as their special case.