

ABSTRACT

RIEMANN INTEGRAL VALUE LINE ON THREE SEQUENCE SPACE

By

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Research has been carried out to find out whether the Riemann integral is worth the difference sequence $\ell_3(\Delta)$. In this study, using the definition of the Riemann integral and several theorems related to the Riemann integral having the value of the sequence $\ell_3(\Delta)$, it will be proven first that the function $\bar{f}(x) \in \ell_3(\Delta)$. Next, we will look for the difference sequence of the function $\bar{f}(x) \in \ell_3(\Delta)$. to prove whether the sequence $\bar{f}(x) = f_1(x), f_2(x), f_3(x), \dots, f_k(x)$ is integral in $[a, b]$ and it has been proven that the sequence $\ell_3(\Delta)$ is Riemann integral in $[a, b]$. In this study, an example of an integral Riemann sequence with a value of $\ell_3(\Delta)$ is also given in order to make it easier for the reader to understand the results of this study.

Key Words: Riemann Integral, Space Line, Space Line $\ell_3(\Delta)$

ABSTRAK

INTEGRAL RIEMANN BERNILAI BARISAN SELISIH TINGKAT TIGA

Oleh

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Telah dilakukan penelitian untuk mengetahui apakah integral Riemann bernilai barisan selisih $\ell_3(\Delta)$. Penelitian ini menggunakan definisi integral Riemann dan beberapa teorema yang berhubungan dengan integral Riemann bernilai barisan $\ell_3(\Delta)$ dan akan dibuktikan terlebih dahulu bahwa fungsi $\bar{f}(x) \in \ell_3(\Delta)$. Selanjutnya akan dicari barisan selisih dari fungsi $\bar{f}(x) \in \ell_3(\Delta)$, untuk membuktikan apakah barisan $\bar{f}(x) = f_1(x), f_2(x), f_3(x), \dots, f_k(x)$ terintegral pada $[a, b]$ dan telah terbukti bahwa barisan $\ell_3(\Delta)$ terintegral Riemann di $[a, b]$. Pada penelitian ini juga diberikan contoh barisan integral Riemann yang bernilai barisan $\ell_3(\Delta)$ agar dapat mempermudah pembaca untuk memahami hasil penelitian ini.

Kata Kunci: Integral Riemann, Ruang Barisan, Ruang Barisan $\ell_3(\Delta)$