

INTEGRABLE

Meaning: Integrable refers to a function that can be assigned a finite integral over a given interval, typically despite having manageable discontinuities.

1. A function is considered integrable if its discontinuities are manageable within a certain interval.
2. In advanced calculus, we often explore whether a given function is integrable over a specified range.
3. The integrable nature of the function allows us to apply the fundamental theorem of calculus effectively.
4. To determine if a series is integrable, we must analyze its convergence and behavior at the endpoints.
5. Many real-world scenarios can be modeled using integrable functions to calculate areas under curves.

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