

Liouville's Theorem (Differential algebra)

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Sber

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Basic definitions

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Through the all of presentation we will suppose that all fields have 0 characteristic.

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Field F is differential if it's equipped with the unary function $'$ such that:

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- ▶ $(ab)' = a'b + ab'$

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Let F be the differential field. Then

- ▶ b is called the logarithm of a if $b' = \frac{a'}{a}$

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