Liouville's Theorem (Differential algebra)

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Definition

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

- (a + b)' = a' + b'
- (ab)' = a'b + ab'

Definition

Subfield $K \subseteq F$, $K = \{a \in F \mid a' = 0\}$ is called subfield of constants.