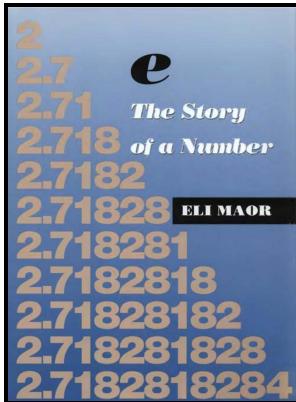


Joseph Liouville, 1809-1882, master of pure and applied mathematics

Springer-Verlag - Liouville's theorem (complex analysis)



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Studies in the history of mathematics and physical sciences ;Joseph
Liouville, 1809-1882, master of pure and applied mathematics
Notes: Includes bibliographical references (p. [789]-853) and index.
This edition was published in 1990



Filesize: 7.12 MB

Tags: #Liouville's #theorem #(complex #analysis)

Liouville's theorem (complex analysis)

In , Liouville's theorem, named after , states that every must be. Liouville's theorem does not extend to the generalizations of complex numbers known as and.

Liouville's theorem (complex analysis)

Integrating then shows that f is and then, by referring back to the original inequality, we have that the constant term is zero.

Liouville's theorem (complex analysis)

Thus h can be extended to an entire bounded function which by Liouville's theorem implies it is constant. But the choice of r in the above is an arbitrary positive number .

Liouville's theorem (complex analysis)

This article is about Liouville's theorem in complex analysis. The theorem is considerably improved by , which says that every entire function whose image omits two or more complex numbers must be constant.

Liouville's theorem (complex analysis)

Then the image of f is equal to fP.

Liouville's theorem (complex analysis)

Since f is and P is , fP is also compact and, therefore, it is bounded. Suppose f is bounded: i.

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