

Real Analysis

Questions and Answers

What is the value of $f^{(n)}(x)$?

one less symbol.

Let $A_n = \{x \in \mathbb{R} \mid f^{(n)}(x) = 0\}$, E_n the interior of A_n . Clearly $E_n \subset E_{n+1}$ by Baire E_n is eventually not empty.

Each E_n is a countable union of open segments. It is easy to see that in passing E_{n+1} new segments can appear, but those already in E_n remain unchanged, such segments are never adjacent.

By this remark is it enough to prove that $\bigcup E_n = \mathbb{R}$. Indeed if this holds and $E_n = \mathbb{R}$, which implies the thesis. Otherwise the points in the boundary of E_n are in the union.

Let $E = \bigcup E_n$, B its complementary set, and assume by contradiction $B \neq \emptyset$. B is a complete metric space, hence can apply Baire to it. So for some k we find that B has non empty interior in B . This means that there is an interval I such that $B \cap I \subset B$ and $B \cap I \neq \emptyset$.

From remark 2, B has no isolated points. The contradiction that we want to find is $I \cap B \subset A_k$. Indeed from this it follows that $I \subset A_k$, hence $E_k \cap B \neq \emptyset$. By construction $I \cap B$ is a union of intervals which appear in E_k , say $J \subset E_k$ (where N is minimal), and let x be one of the points in the boundary of I . Then $x \in I \cap B \subset A_k$, so $f^{(k)}(x) = 0$. x is the limit of a sequence x_n of points in B , so $f^{(k)}(x_n) \neq 0$.

By the same argument $f^{(k)}(x) = 0$ for every point where the limit exists. $f^{(k)}(x) = 0$ for every point where the limit exists.

George Duckett

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**George Duckett, Sir George Floyd
Duckett**



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A Practical Treatise on Bills of Exchange, Checks on Bankers, Promissory Notes, Bankers' Cash Notes, and Bank Notes Joseph Chitty, 1849 **Penal Laws and Test Act** George Duckett, Sir George Floyd Duckett, 1882 The Edinburgh Review, 1899 **Complex Analysis** George a Duckett, 2015-12-21 If you have a question about Complex Analysis this is the book with the answers Complex Analysis Questions and Answers takes some of the best questions and answers asked on the math stackexchange com website You can use this book to lookup commonly asked questions browse questions on a particular topic compare answers to common topics check out the original source and much more This book has been designed to be very easy to use with many internal references set up that makes browsing in many different ways possible Topics covered include integration real analysis calculus definite integrals complex numbers and many more *The Fortnightly Review*, 1876 *Fortnightly Review*, 1876 *An Answer to Lord Sheffield's Pamphlet, on the Subject of the Navigation System* Alexander Robertson, Edward Copleston, George Duckett Barber, James Currie, S. Cock, Solomon Atkinson, Thomas Charles Banfield, 1817 **Boom, Bust, and Beyond** Stefano Condorelli, Daniel Menning, 2019-09-02 Few financial crises historically speaking have attracted such attention as the Mississippi and South Sea Bubbles of 1719 20 The twin bubbles had major economic and political implications sending shock waves through the whole of Europe they astonished contemporaries and to a large extent they still resonate today This volume offers new readings of these events drawing on fresh research and new evidence that challenge traditional interpretations The chapters engage in particular with the geographical frame of the 1719 20 bubbles their social cultural economic and political impact the ways in which contemporaries understood speculation the contributions and impact of a diverse array of participants popular and print memorialization of the events Overall the volume helps to rewrite the history of the 1719 20 bubbles and to recontextualize their place within eighteenth century history The Athenaeum, 1879 Academy; a Weekly Review of Literature, Learning, Science and Art, 1880 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910

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