

Let f, g be continuous functions

Q1: over the interval $[a, b]$, $g \geq 0$ in the interval.

Prove that there exists $c \in [a, b]$ such that

$$\int_a^b f(x) \cdot g(x) dx = f(c) \int_a^b g(x) dx$$

Proof:

Since f is continuous over $[a, b]$ there exists $m, M, x \in [a, b]$ such that

$$m \leq f(x) \leq M,$$

Since $g \geq 0$ I can multiply the inequality while retaining it: $m g(x) \leq f(x) g(x) \leq M g(x)$

f and g are integrable at $[a, b]$, therefore I'll integrate the inequality with respect to x :

$$\int_a^b m g(x) dx \leq \int_a^b f(x) g(x) dx \leq \int_a^b M g(x) dx$$

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Elementary Real and Complex Analysis Georgii Evgen'evich Shilov, 1973

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support friendship and complicity Rami Shakarchi Princeton New Jersey 1999 Contents Preface vii I Complex Numbers and Functions 1 1 1 Definition 1 1 2 Polar Form 3 1 3 Complex Valued Functions 8 1 4 Limits and Compact Sets 9 1 6 The Cauchy Riemann Equations *Problems in Real and Complex Analysis* Bernard R. Gelbaum,1992-01-01 [A Course in Mathematical Analysis: pt.2. Differential equations. \[c1917](#) Edouard Goursat,1916 **An Elementary Treatise on Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics, with Applications to Problems in Mathematical Physics** William Elwood Byerly,1893 *Applied Complex Analysis with Partial Differential Equations* Nakhlé H. Asmar,Gregory C. Jones,2002 This reader friendly book presents traditional material using a modern approach that invites the use of technology Abundant exercises examples and graphics make it a comprehensive and visually appealing resource Chapter topics include complex numbers and functions analytic functions complex integration complex series residues applications and theory conformal mapping partial differential equations methods and applications transform methods and partial differential equations in polar and spherical coordinates For engineers and physicists in need of a quick reference tool

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check all his previously accepted knowledge Audience This volume is intended for undergraduate and graduate students in mathematics physics technology and economics interested in complex analysis **A Course in Mathematical Analysis: Intermediate analysis** Norman B. Haaser,1959 **Real and Complex Analysis** Walter Rudin,1987 Presents the basic techniques and theorems of analysis This work includes a chapter on differentiation It presents proofs of theorems and many exercises appear at the end of each chapter It is arranged so that each chapter builds upon the other giving students a gradual understanding of the subject Computer Mathematics, Series II Geoffrey Knight,1969 General numerical and symbolic analysis Elementary algebra Calculus Difference differential and integral equations Abstracts mathematics Probability and statistics Optimization mathematical programming operations research Mathematical communication theory information theory Mathematical systems and control theory Mathematical logic and switching theory automata **Radio Science** ,1998

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