

Ques

(2014 June)

$$\lim_{n \rightarrow \infty} \frac{1}{\sqrt{n}} \left(\frac{1}{\sqrt{1} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{5}} + \dots + \frac{1}{\sqrt{2n-1} + \sqrt{2n+1}} \right) \text{ equals}$$

(a) $\sqrt{2}$

(b) $\frac{1}{\sqrt{2}}$

(c) $\sqrt{2} + 1$

(d) $\frac{1}{\sqrt{2} + 1}$

Solution

$$\frac{1}{\sqrt{n}} \left(\frac{1}{\sqrt{1} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{5}} + \dots + \frac{1}{\sqrt{2n-1} + \sqrt{2n+1}} \right)$$

$$= \frac{1}{\sqrt{n}} \left(\frac{1}{\sqrt{1} + \sqrt{3}} \times \frac{\sqrt{1} - \sqrt{3}}{\sqrt{1} - \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{5}} \times \frac{\sqrt{3} - \sqrt{5}}{\sqrt{3} - \sqrt{5}} + \dots + \frac{1}{\sqrt{2n-1} + \sqrt{2n+1}} \times \frac{\sqrt{2n-1} - \sqrt{2n+1}}{\sqrt{2n-1} - \sqrt{2n+1}} \right)$$

$$= \frac{1}{\sqrt{n}} \left(\frac{\sqrt{1} - \sqrt{3}}{1 - 3} + \frac{\sqrt{3} - \sqrt{5}}{3 - 5} + \dots + \frac{\sqrt{2n-1} - \sqrt{2n+1}}{(2n-1) - (2n+1)} \right)$$

$$= \frac{1}{\sqrt{n}} \left(\frac{1}{-2} + \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{2} + \frac{\sqrt{5}}{2} - \frac{\sqrt{5}}{2} + \dots + \frac{\sqrt{2n-1}}{-2} + \frac{\sqrt{2n+1}}{2} \right)$$

$$= \frac{1}{\sqrt{n}} \left(-\frac{1}{2} + \frac{\sqrt{2n+1}}{2} \right)$$

$$\lim_{n \rightarrow \infty} \frac{1}{\sqrt{n}} \left(\frac{1}{\sqrt{1} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{5}} + \dots + \frac{1}{\sqrt{2n-1} + \sqrt{2n+1}} \right)$$

$$= \lim_{n \rightarrow \infty} \frac{1}{\sqrt{n}} \left(-\frac{1}{2} + \frac{\sqrt{2n+1}}{2} \right)$$

$$= \lim_{n \rightarrow \infty} \left(-\frac{1}{2\sqrt{n}} + \frac{\sqrt{2n+1}}{2\sqrt{n}} \right)$$

$$= \lim_{n \rightarrow \infty} \left(-\frac{1}{2\sqrt{n}} + \frac{1}{2} \sqrt{2 + \frac{1}{n}} \right)$$

$$= 0 + \frac{1}{2} \sqrt{2} = \frac{1}{\sqrt{2}}$$

Real Analysis Problems Solutions

AN Whitehead



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Problems And Solutions In Real Analysis (Second Edition) Masayoshi Hata, 2016-12-12 This second edition introduces an additional set of new mathematical problems with their detailed solutions in real analysis It also provides numerous improved solutions to the existing problems from the previous edition and includes very useful tips and skills for the readers to master successfully There are three more chapters that expand further on the topics of Bernoulli numbers differential equations and metric spaces Each chapter has a summary of basic points in which some fundamental definitions and results are prepared This also contains many brief historical comments for some significant mathematical results in real analysis together with many references Problems and Solutions in Real Analysis can be treated as a collection of advanced exercises by undergraduate students during or after their courses of calculus and linear algebra It is also instructive for graduate students who are interested in analytic number theory Readers will also be able to completely grasp a simple and elementary proof of the Prime Number Theorem through several exercises This volume is also suitable for non experts who wish to understand mathematical analysis

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Real Analysis Gustavo Da Silva Araújo, Luis Bernal González, José L. Gámez Merino, María E. Martínez Gómez, Gustavo A. Muñoz Fernández, Daniel L. Rodríguez Vidanes, Juan B. Seoane Sepúlveda, 2024-06-20 Real Analysis An Undergraduate Problem Book for Mathematicians Applied Scientists and Engineers is a classical Real Analysis Calculus problem book This topic has been a compulsory subject for every undergraduate studying mathematics or engineering for a very long time This volume contains a huge number of engaging problems and solutions as well as detailed explanations of how to achieve these solutions This latter quality is something that many problem books lack and it is hoped that this feature will be useful to students and instructors alike Features Hundreds of problems and solutions Can be used as a stand alone problem book or in conjunction with the author s textbook Real Analysis An Undergraduate Textbook for Mathematicians Applied Scientists and Engineers ISBN 9781032481487 Perfect resource for undergraduate students studying a first course in Calculus or Real Analysis Contains explanatory figures detailed techniques tricks hints and recipes on how to proceed once we have a calculus problem in front of us

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