

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

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

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

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

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

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

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

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

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

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

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

# Solutions Real Analysis Dupree

**L Reisser**



## **Solutions Real Analysis Dupree:**

## **Solutions Real Analysis Dupree** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Solutions Real Analysis Dupree**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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cell's ability to divide ...