

## Extension to 2002 HSC Ext. 2 Q8a

(v) Use the identity  $\cot^2 \theta = \operatorname{cosec}^2 \theta - 1$  and the result of Question 8 (a) (iii) to prove that

$$\operatorname{cosec}^2\left(\frac{\pi}{2m+1}\right) + \operatorname{cosec}^2\left(\frac{2\pi}{2m+1}\right) + \cdots + \operatorname{cosec}^2\left(\frac{m\pi}{2m+1}\right) = \frac{2m(m+1)}{3}$$

(vi) Use the fact that  $\operatorname{cosec} \theta > \frac{1}{\theta}$  for  $0 < \theta < \frac{\pi}{2}$  to show that:

$$\left(\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots + \frac{1}{m^2}\right) \frac{(2m+1)^2}{4m(m+1)} < \frac{\pi^2}{6}$$

(vii) Deduce that  $\frac{1}{(2m+1)^2} < 1 - \frac{6}{\pi^2} \left(\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots + \frac{1}{m^2}\right) < \frac{6m+1}{(2m+1)^2}$

(viii) Taking the limit as  $m \rightarrow \infty$  deduce that  $\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \cdots = \frac{\pi^2}{6}$

# Maths Extension Past Papers

**David Kirk**



**Maths Extension Past Papers:**

## **Maths Extension Past Papers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Maths Extension Past Papers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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