

## STEP II, 2012, Q4 EC

**Q4** This was quite a popular question, as candidates seemed to like using the log series, and appreciated the helpful structuring of the question. However, inequalities are seldom entirely confidently handled, and explanations (wherever they are required) are generally rather feeble. Thus, several marks were often not picked up, sometimes because the candidates did not think they had to consider addressing issues such as whether the series was valid in this case. Part (i) was usually fairly well done, with (ii) providing more of a challenge. Part (iii) required only informal arguments, but many scored only 1 of the 2 marks allocated here due to being a bit too vague about what was going on.



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