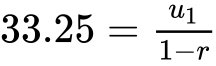
# 1.11 Sum of infinite geometric sequence\_P\_2

**1.** *[6 marks]*

## Markscheme

\* This question is from an exam for a previous syllabus, and may contain minor differences in marking or structure.

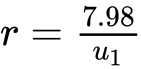
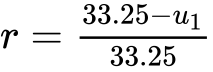
correct substitution into formula for infinite geometric series      ***(A1)***

*eg*     

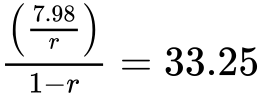
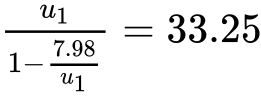
correct substitution into formula for  (seen anywhere)      ***(A1)***

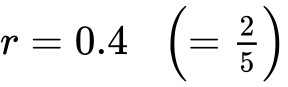
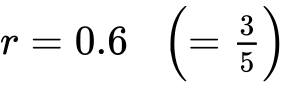
*eg*

attempt to express  in terms of  (or vice-versa)      ***(M1)***

*eg*     ,   ,   ,   

correct working      ***(A1)***

*eg*    ,   ,   (0.4, 19.95),   (0.6, 13.3),   

,          ***A1A1*** ***N3***

***[6 marks]***

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