



STEP III, 2011 Q7 EC

7. The popularity and success rate of this was very similar to question 6. Quite a few failed to realise the importance of $A_n^2 = a(a+1)B_n^2 + 1$ as part of the induction, and even if they did tripped up on that part of the working. Part (ii) generally went well and the result in C_n and D_n was found more easily. Very few had a problem with part (iii) but a small number failed totally to see what it was about.



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