

STEP II, 2015, Q5 EC

Question 5

This question had one of the lower average marks for the Pure maths questions on the paper. Most candidates were able to produce a proof by induction for the first part, but the vast majority failed to realise that there was more that needed to be done to prove the result stated in terms of arctan. As is the case for a number of other questions, candidates need to give a clear explanation of each step of the solution. Where candidates identified the relationship between the two parts of the question the second part was generally well attempted.



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