

STEP III, 2017, Q6 EC

Question 6

The second most popular question attempted by four fifths of the candidates; the success rate was only very slightly less than that of question 4. As every part of the question required obtaining a given result, it had to be marked strictly on how well things were presented. There were surprising problems with changing the variables in the first part, as often candidates did not clearly understand dummy variables, and others integrated with respect to constants. In spite of the ban on the use of trigonometric functions, some still tried to use the tangent function. The two results in (iii), especially the second, were testing but were found very hard, and previous inapplicable results were used, ignoring the conditions given as inequalities.



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