



STEP II, 2019, Q4 EC

This was a well-answered question, but also one in which a fairly large number of solutions scored very low marks. The majority of candidates were able to evaluate the first product using the identity provided and most were then able to apply the same technique to simplify the first expression in part (i). Many students then differentiated, but some then struggled to manage the notation correctly to reach the second result requested in part (ii).

Part (iii) required some care to ensure that the sums and products were over the correct range, but those who managed to adjust correctly for this were then able to reach the required results.



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