



## STEP II, 2016, Q8 EC

The first task in this question was generally well answered, although sketches were often unclear or difficult to interpret. In part (i) many candidates were able to obtain the first approximation, but then could not see how to achieve the other two, often offering sums of a non-integer number of terms which gives the correct approximation when substituted into the formula. Those who successfully completed part (i) were often able to approximate the error in part (ii) and see how it applies to the final sum.



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