

STEP III, 2017, Q4 EC

Question 4

Three fifths of the candidates attempted question 4 with a marginally better success rate than question 3. A significant proportion of candidates struggled with changing base for part (i), but almost all completed (ii) successfully. A common strategy for part (iii) was to use the result of part (i) but very few remembered to check for $b = 1$. There were very few successful attempts for part (iv); many tried integration by parts, but rarely successfully.



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