

STEP II, 2013, Q1 EC

1. This was the most popular of all of the questions. Overall part (i) of this question was well answered, although there were a number of candidates who were not able to find the tangent and intercept even in this first case. Very few attempts at part (ii) of this question involved the use of sketches. While many attempts at part (iii) recognised the link in the final part with part (ii) of the question, many of the explanations in this section were not well enough explained to gain full marks. In the final part it was pleasing to note that many candidates realised that the conditions implied that the intersection with the y-axis was at a negative value.



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