

STEP II, 2006, Q11 EC

- 11 It was felt by examiners that this was the nicest (and easiest) of the three Mechanics questions, yet it drew very few serious attempts from the candidature. Most serious efforts coped very easily with the first two parts. Thereafter, it was often the case that maximising OA proved to be a greater difficulty than it should have done, despite the fact that the option to use calculus was available (although much less concise an approach than using a trigonometric one). There had been concerns that, for the final part, candidates might not grasp what was going on but, happily, this proved not to be the case and several candidates spotted the significance of having $f = g$ **and** described the resulting motion adequately.



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