



STEP II, 2014, Q9 EC

Question 9

This question was not attempted by a very large number of candidates and the average score achieved was the lowest on the paper. While there were a number of attempts that did not proceed beyond drawing a diagram to represent the situation, the first part of the question was done well by a large number of candidates. Many were also able to adjust the result for the case when the frictional force acts downwards. Unfortunately, in the final part of the question many candidates continued to use $F = \mu R$, not realising that this only applies in the critical case and so there were very few correct solutions to this part of the question.



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