

STEP III, 2006, Q9 EC

- 9 The first part depends on the intuition that potential energy must be constant if the system is in equilibrium in all positions. The remainder of the question can be attempted without that by assuming the established result, but it makes its return in the complementary intuition that kinetic energy must also be constant by the conservation law.



NextStepMaths.com

To view mark schemes, fully worked solutions and examiner's comments, and for more details about tutoring and other services offered, go to [NextStepMaths.com](https://www.NextStepMaths.com)