



## STEP III, 2005, Q8 EC

- 8 This was easily the least popular Pure question, though still attempted more frequently than any of the applied questions. Solutions getting beyond the first couple of parts successfully were extremely rare, with many not recognising  $|a - c|$  as the radius of the circle, and hardly any being able to use the result  $2aa^* = ac^* + ca^*$  to show that the conditions for B and B' to lie on the circle were equivalent, let alone the converse.



## 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)