



STEP II, 2013, Q4 EC

4. This question received a relatively small number of attempts compared to the other Pure Mathematics questions. On average candidates who attempted this question only received a quarter of the marks available. Some candidates did not manage to write down the correct equation of the line or did not appreciate that the phrase “unit radius” means that the radius is 1. Many candidates produced loci for the second part of the question without any indication of a method. In the final part of the question the significance of the restrictions on the value of b were not appreciated by many of the candidates.



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)