

## STEP III, 2015 , Q6 EC

6. About three fifths of the candidates attempted this question but without great success. The first part tripped up many through needing to prove 'if and only if'. The first part of (ii) yielded good

scoring opportunities for those that did make progress on this question, though some fell by the wayside when it came to the situation that would not generate there possible values. Some attempts at the last result failed as the counter-example was not always shown to be a counter-example.



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