# A level Pure Maths: Practice Paper A mark scheme

| 1   | Scheme  | Marks | AOs  | Pearson Progression Step and Progress descriptor     |
|-----|---|-------|------|--|
| (a) | Makes an attempt to substitute $k=1$ , $k=2$ and $k=4$ into $a_k=2^k+1, k\ldots 1$                          | MI    | 1.16 | 5th<br>Understand<br>disproof by<br>counter example. |
|     | Shows that $a_1 = 3$ , $a_2 = 5$ and $a_4 = 17$ and these are prime numbers.                                | AI    | 1.16 |  |
|     |   | (2)   |      |  |
| (b) | Substitutes a value of $k$ that does not yield a prime number.<br>For example, $a_3 = 9$ or $a_5 = 33$      | Al    | 1.16 | 5th Understand disproof by counter example.          |
|     | Concludes that their number is not prime.<br>For example, states that $9 = 3 \times 3$ , so 9 is not prime. | BI    | 2.4  |  |
|     |   | (2)   |      |  |

(4 marks)

Notes

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**Tobias Bleicker** 



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