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| **Topic 1: Numbers and Algebra** | **Binomial Expansion** | |
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| 1. (a) Expand and simplify in ascending powers of *b*.    (b) By using a suitable substitution for *b*, show that | | (2 marks)  (3 marks) |
| Mark scheme:  1. (a)  An attempt to use the binomial theorem or simply multiplying    (b) | | (M1)  (A1)  (A1)  (M1)   (A1) |