Binomial Expansion

Example

Find the first 4 terms in the expansion of , in ascending powers of .

Test Your Understanding

Find the first 3 terms in the expansion of , in ascending powers of .

Extension

1. [AEA 2013 Q1a] In the binomial expansion of the coefficients of and are equal and non-zero.

Find the possible values of .

2. [STEP I 2010 Q5a] By considering the expansion of , where is a positive integer, or otherwise, show that:

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