

Financial Mathematics

Stirling's Formula

0050-1.

Using Stirling's formula, find constants
 C , k and b

such that

$$\binom{7n}{4n} \sim C(n^k)(b^n),$$

i.e., such that

$$\lim_{n \rightarrow \infty} \left[\binom{7n}{4n} \right] \left[C(n^k)(b^n) \right]^{-1} = 1.$$