Thus in a formal sense

$$e^{pa^n} = e^{-az} \sum_{k=0}^{\infty} \frac{a^k}{k!} g_k^n (z,p) \quad . \tag{19}$$

Two such expansions, with parameters a and b, might be multiplied together or perhaps combined with the expansion (9) in order to obtain generating functions involving Fibonacci and Lucas numbers as exponents. It seems clear that what is needed is a collection of interesting and simple generating functions for the generalized Hermite polynomials. It is hoped to offer further results in this direction in a later paper.

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