Hermite polynomials.

Ref: Max's notes, Hainer's notes on Malliavin calculus.

let (Hn(x)) nzo be the family of polynomicals characterized by:





Let $e(x) = \frac{1}{\sqrt{2\pi}} exp(-\frac{x^2}{2})$ be the standard Gaussian density.











 $= \frac{1}{n+1} \left(\frac{1}{H_{n+1}(x)} H_{m+1}(x) e(x) dx}{n+1} \right)$

Combining w/ the lemma, obtain







which implies that



 \Rightarrow f = 0 a.e.

Define creation and annihilation operators





















