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Orthogonality • The Laguerre differential equation is not self-adjoint and the Laguerre polynomials do not by themselves form an orthogonal set

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$L(-\infty, \infty)$  in the mathematical literature and meaning that the function  $f$  belongs to the space of absolutely integrable functions Moreover, then Riemann's lemma holds  $\int_{-\infty}^{\infty} f(t)\cos\omega t dt \rightarrow 0$ ,  $\int_{-\infty}^{\infty} f(t)\sin\omega t dt \rightarrow 0$ , as  $\omega \rightarrow \infty$  The Fourier transform is based on the kernel  $e^{i\omega t}$  and its real and

imaginary

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