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Problem Set 7

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PHYS 440

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Problem 1.

$$(a) \hat{Q}(af + bg) = a\hat{Q}f + b\hat{Q}g = aqf + bqg = q(af + bg)$$

Clearly the conditions of the problem are satisfied.

(b) $\frac{d}{dx}e^{-x} = -e^{-x}$ and $\frac{d}{dx}e^x = e^x$, therefore they are eigenfunctions of the operator with eigenvalue 1. We can follow the Gram-Schmidt procedure for orthogonalization. First consider e^x and normalize it. We have

$$\begin{aligned} A^2 \int_{-1}^1 e^{2x} dx &= 1 \\ A^2 \frac{1}{2}(e^2 - e^{-2}) &= 1 \\ A &= \sqrt{\operatorname{csch}(2)} \end{aligned}$$

We can then consider the inner product of e^{-x} with the normalized vector above. We have

$$\langle e^x | \sqrt{\operatorname{csch}(2)} e^{-x} \rangle = \int_{-1}^1 \sqrt{\operatorname{csch}(2)} dx = 2\sqrt{\operatorname{csch}(2)}$$

So now our vector orthogonal to $\sqrt{\operatorname{csch}(2)}e^{-x}$ is $e^x - 2\operatorname{csch}(x)e^{-x}$. We can normalize this

$$\begin{aligned} A^2 \int_{-1}^1 e^{2x} - 4\operatorname{csch}(2) + 2\operatorname{csch}^2(2)e^{-2x} dx &= 1 \\ A^2 \left(-8\operatorname{csch}(2) + \frac{1}{2}e^{2x} + \operatorname{csch}^2(x)e^{2x} \right) \Big|_{-1}^1 &= 1 \\ A &= \left(-6\operatorname{csch}(2) + \sinh(2) \right)^{-\frac{1}{2}} \end{aligned}$$

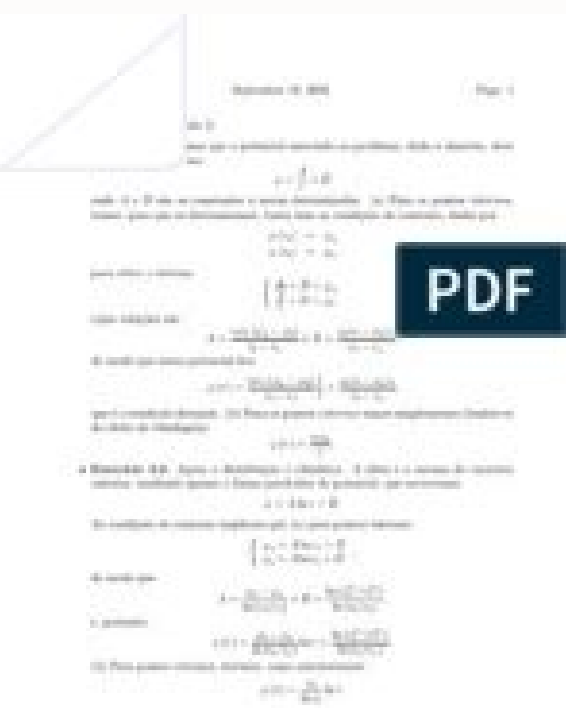
Therefore our orthonormal basis is

$$\begin{aligned} \mathbf{e}_1 &= \sqrt{\operatorname{csch}(2)} e^{-x} \\ \mathbf{e}_2 &= \frac{e^x - 2\operatorname{csch}(x)e^{-x}}{\sqrt{\sinh(2) - 6\operatorname{csch}(2)}} \end{aligned}$$

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And the Conversion of Europe

A. H. M. Jones



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