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 2. $\mathcal{H}^1(\mathbb{R}^n)$ is a Hilbert space with inner product $(f, g) = \int_{\mathbb{R}^n} f(x) \overline{g(x)} dx$.
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$\frac{d}{dt} \left(\frac{1}{\sqrt{1-v^2/c^2}} \right) = \frac{v}{c^2} \frac{dv}{dt}$