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operator in a Hilbert space H . Show that $\text{ran}(P)$ is closed and $H = \text{ran}(P) \oplus \text{ker}(P)$ is the orthogonal direct sum of $\text{ran}(P)$ and $\text{ker}(P)$.

Problem 12. Let H be an arbitrary Hilbert space with scalar product $\langle \cdot, \cdot \rangle$. Show that if f is a bounded linear functional on the Hilbert space H , then there is a unique vector $u \in H$ such that $\langle f, v \rangle = \langle u, v \rangle$ for all $v \in H$.

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Definition 2.12. Given a probability density $w(x)$ on \mathbb{R} , let $L^2(w)$ be the space of Borel measurable real functions f on \mathbb{R} satisfying $\int_{-\infty}^{\infty} f(x)^2 w(x) dx < \infty$, endowed with the inner product $\langle f, g \rangle = \int_{-\infty}^{\infty} f(x)g(x)w(x)dx$ and associated norm $\|f\| = \sqrt{\langle f, f \rangle}$. $\langle f, f \rangle$ and metric $\|f - g\|$.

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