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Sturm-Liouville Theory and its Applications

$$\int_V \nabla \cdot \vec{F} dV = \int_{\partial V} \vec{F} \cdot \vec{n} d\sigma \iff \int_V dw = \int_{\partial V} w$$

$$\nabla \cdot (P \cdot Q) = \nabla P \cdot Q + P \cdot \nabla Q, \nabla \cdot (P \vee Q) = \nabla P \cdot Q + P \cdot \nabla Q$$

$$|\langle \chi, \gamma \rangle| \leq \|\chi\| \|\gamma\|$$

$$\delta_{ij} = \frac{1}{|G|} \sum_{g \in G} x_i(g) \overline{x_j(g)} = \frac{1}{|G|} \sum_{g \in G} \chi_i(g) \overline{\chi_j(g)}$$

$$P(A | B) = \frac{P(A \cap B)}{P(B)}$$

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$$\int_a^b f(t) dt = F(b) - F(a)$$

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