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1. (a) Let $f, g : \mathbb{R}^n \to \mathbb{R}$; $\boldsymbol{F}, \boldsymbol{G} : \mathbb{R}^n \to \mathbb{R}$; and define Δ, the *Laplacian*, by $\Delta f = \displaystyle\sum_{i=1}^{n} \frac{\partial^2 f}{\partial x_i^2}$.