MATB42: Assignment #8

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

i. \div