

$$\int_{\mathbb{R}^d} \frac{1}{2} \sum_{i,j=1}^d \partial_i \partial_j \phi(x) \partial_i \partial_j \psi(x) dx = \int_{\mathbb{R}^d} \frac{1}{2} \sum_{i,j=1}^d \partial_i \partial_j \phi(x) \partial_i \partial_j \psi(x) dx = \int_{\mathbb{R}^d} \frac{1}{2} \sum_{i,j=1}^d \partial_i \partial_j \phi(x) \partial_i \partial_j \psi(x) dx$$