$$\begin{pmatrix} \frac{1}{4} \\ \frac{1}{4} \end{pmatrix}^{2} \xrightarrow{\sum_{i=1}^{n} \frac{1}{4}} \begin{pmatrix} \frac{1}{4} \\ \frac{1}{4} \end{pmatrix}^{2} \xrightarrow{\sum_{i=1$$