

$$\Delta x^3 f = \Delta \left[\begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} \right] \circ f = \left\{ \begin{array}{l} + q^0 \begin{array}{|c|} \hline \downarrow \bullet \bullet \bullet \\ \hline \end{array} \circ f \\ + q^1 \begin{array}{|c|} \hline \bullet \downarrow \bullet \\ \hline \end{array} \circ f \\ + q^2 \begin{array}{|c|} \hline \bullet \bullet \downarrow \bullet \\ \hline \end{array} \circ f \\ + q^3 \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} \circ \Delta f \end{array} \right. = [3]_q x^2 f + q^3 x^3 \Delta f.$$