

$$p(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

$$\begin{aligned}
& fma(fma(fma(a_3, x, a_2), x, a_1), x, a_0) \\
&= fma(fma((a_3x + a_2) \cdot (1 + \delta_1), x, a_1), x, a_0) \\
&= fma(((a_3x + a_2) \cdot (1 + \delta_1) \cdot x + a_1) \cdot (1 + \delta_2), x, a_0) \\
&= (((a_3x + a_2) \cdot (1 + \delta_1) \cdot x + a_1) \cdot (1 + \delta_2) \cdot x + a_0) \cdot (1 + \delta_3)
\end{aligned}$$