

\[\begin{align}

& b\_{0}^{2}=b\_{0}^{1}+(b\_{1}^{1}-b\_{0}^{1})\*t \\

& ={{b}\_{0}}+({{b}\_{1}}-{{b}\_{0}})\*t+({{b}\_{1}}-{{b}\_{0}})\*t+({{b}\_{2}}-2{{b}\_{1}}+{{b}\_{0}})\*{{t}^{2}} \\

& ={{t}^{2}}{{b}\_{0}}-2{{b}\_{0}}t+{{b}\_{0}}+2t(1-t){{b}\_{1}}+{{t}^{2}}{{b}\_{2}} \\

& ={{(1-t)}^{2}}{{b}\_{0}}+2t(1-t){{b}\_{1}}+{{t}^{2}}{{b}\_{2}} \\

\end{align}\]









\[{b}'(0)=3({{b}\_{1}}-{{b}\_{0}})\]

\[{b}'(1)=3({{b}\_{3}}-{{b}\_{2}})\]