Arc Length Re-parameterization

$$\vec{p'}(t) = 3\,\vec{a}\,t^2 + 2\,\vec{b}\,t + \vec{c}$$

- Derivative of position is not constant
- Objects may speed up or slow down as they move along the curve
- Tabulate arclength along the spline and map a given frame to arclength to t.