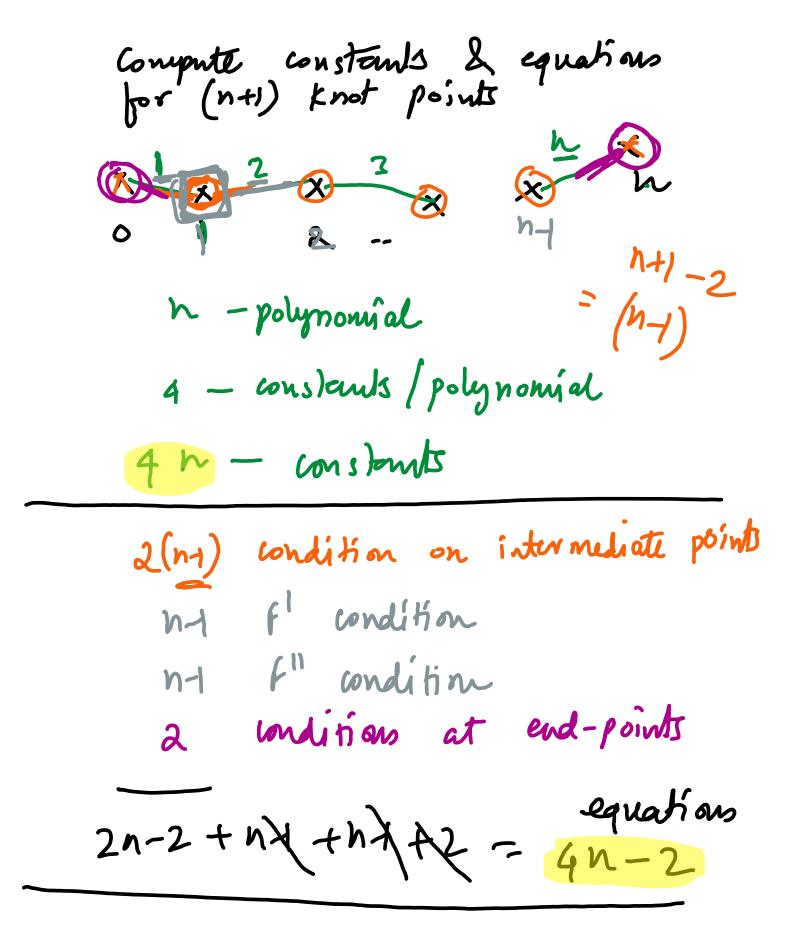


$$\begin{array}{lll}
x_{i-1}(x) & F_{i}(x) & Y_{i+1} & F_{i+1}(x) \\
Y_{i+1}(x) & Y_{i+1}(x) & Y_{i+2}(x) &$$



We have 4n constants, but only 4n-2 equations.

we need to specify a more conditions in order to fit the spline(s)

Here are different nays to specify a conditions

- (1) Natural spline: $f''(x_0) = 0$ and $f''(x_n) = 0$
- (2) Clamped condition: Spline V $f'(X_0)=0$ and $f'(X_n)=0$
- 3) Not-a-knot default spline $f_1^{(1)}(x_1) = f_2^{(1)}(x_1)$; $f_{h_1}(x_{h-1}) = f_n^{(1)}(x_{h-1})$