Nodos igualmente espaciados

Diferencias hacia adelante

$$\Delta^{0} y_{k} := y_{k},
\Delta^{1} y_{k} = y_{k+1} - y_{k},
\Delta^{2} y_{k} = y_{k+2} - y_{k+1} - y_{k+1} + y_{k} = y_{k+2} - 2y_{k+1} + y_{k},
\dots
\Delta^{n} y_{k} = \sum_{j=0}^{n} (-1)^{j} \binom{n}{j} y_{k+n-j}$$