

 $y_{n+1} = y_n - \frac{f_{n-1}}{6h^3} \int_0^1 (u+h)(u)(u-h)du + \frac{f_{n-1}}{2h^3} \int_0^1 (u+2h)(u)(u-h)du - \frac{f_{n-1}}{2h^3} \int_0^1 (u+2h)(u+h)(u)du + \frac{f_{n-1}}{6h^3} \int_0^1 (u+2h)(u+h)(u)du + \frac{f_{n-1}}{6h^3} \int_0^1 \frac{f_{n-1}}{2h^3} \int_0^$