02.06.16 Hullisten methods y = f(y, 1) Ex. Adams - Bashforth $y_{n+1} = y_n + \int_{\mathcal{T}} f(y(\tau), \tau) d\tau$ Adams: tilperme med nolynom Pm(T) Pm(2) er polynom som interpolerer f(y(τ), τ) på tnei-m,..., tn fn = f(yn, tn) (x. m=2: $P_{2}(\tau) = f_{n} + (\tau - f_{n}) \frac{f_{n} - f_{n-1}}{f_{n}}$ Interpolarer Jordi P. (tn) = /n $P_{2}(f_{n-1}) = f_{n-1}$ $y_{n+1} = y_n + \int_{\tau_n}^{\tau_{n+1}} P_1(\tau) d\tau = y_n + \left[t_n \tau + \frac{1}{2} (\tau - t_n)^2 \frac{t_n - t_{n-1}}{h} \right]_{\tau_n}^{\tau_{n+1}}$ = yn+fnh+ 1/2 h (fn-fn-1) = yn+ 3/2 h fn- 1/2 fn-1



