

$$y_{m+1} = y_m + h y'_m + \frac{h^2}{2} y''_m + \frac{h^3}{6} y'''_m + \frac{h^4}{24} y^{(4)}_m + O^5(\xi)$$

$$y_{m+2} = y_m + 2h y'_m + 2h^2 y''_m + \frac{8}{6} h^3 y'''_m + \frac{2}{3} h^4 y^{(4)}_m + O^5(\xi)$$

dies heißt 3. Verfall.

$$\begin{cases} A + B + C = 0 \\ B + 2C = 1 \rightarrow \text{sic wird die linearis. Formel behouden.} \\ \frac{B}{2} + 2C = 0 \end{cases}$$

3. Regel

$$\begin{cases} A = -\frac{3}{2} \\ B = 2 \\ C = -\frac{1}{2} \end{cases}$$