

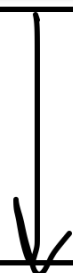
получение y_1, \dots, y_3



цикл по i
от 3 до $n-1$



$$\begin{aligned}\Delta f_i &= f_i - f_{i-1} \\ \Delta^2 f_i &= f_i - 2f_{i-1} + f_{i-2} \\ \Delta^3 f_i &= f_i - 3f_{i-1} + 3f_{i-2} - f_{i-3}\end{aligned}$$



$$y_{i+1} = y_i + hf_i + \frac{h^2}{2}\Delta f_i + \frac{5h^3}{12}\Delta^2 f_i + \frac{3h^4}{8}\Delta^3 f_i$$



$i = i + 1$
цикл по i



вывод y_n