

## ADAMS-MOULTON PREDICTOR-CORRECTOR METHODS

Order	Predictor-Corrector Formulae	Local Error
2	$y_{n+1}^p = y_n + \frac{h}{2} (3 f_n + f_{n-1})$	$ E_{n+1}  \cong \frac{1}{6}  y_{n+1}^p - y_{n+1}^c $
	$y_{n+1}^c = y_n + \frac{h}{2} (f_{n+1}^p + f_n)$	
3	$y_{n+1}^p = y_n + \frac{h}{12} (23 f_n - 16 f_{n-1} + 5 f_{n-2})$	$ E_{n+1}  \cong \frac{1}{10}  y_{n+1}^p - y_{n+1}^c $
	$y_{n+1}^c = y_n + \frac{h}{12} (5 f_{n+1}^p + 8 f_n - f_{n-1})$	
4	$y_{n+1}^p = y_n + \frac{h}{24} (55 f_n - 59 f_{n-1} + 37 f_{n-2} - 9 f_{n-3})$	$ E_{n+1}  \cong \frac{19}{270}  y_{n+1}^p - y_{n+1}^c $
	$y_{n+1}^c = y_n + \frac{h}{24} (9 f_{n+1}^p + 19 f_n - 5 f_{n-1} + f_{n-2})$	