

$$2) p_{n+1}(x) = p_n(x) - (x-x_0)(x-x_1) \dots (x-x_n) f[x_0, x_1, \dots, x_{n+1}]$$

$$\text{mit } B = f[0, 2, 3, 4, 5] = \frac{3}{10}$$

x_i	$f(x_i)$	$f[x_i]$	$f[x_i, j]$	$f[x_i, j, k]$	$f[x_i, j, k, l]$
0	1	2	1	$-\frac{1}{4}$	$\frac{3}{10}$
2	5	5	0	$\frac{5}{4}$	
3	10	5	$\frac{5}{2}$		
4	25	10			
5	25				