

x_i	$f(x_i)$	$f(x_i, x_{i+1})$	\cdots	$f(x_0, \dots, x_n)$
x_0	$f(x_0)$	$\frac{f(x_1) - f(x_0)}{x_1 - x_0}$		
x_1	$f(x_1)$	$\frac{f(x_2) - f(x_1)}{x_2 - x_1}$		
x_2	$f(x_2)$	\cdots		
\cdots	\cdots	\cdots		
x_{n-2}	$f(x_{n-2})$	$\frac{f(x_{n-1}) - f(x_{n-2})}{x_{n-1} - x_{n-2}}$		
x_{n-1}	$f(x_{n-1})$	$\frac{f(x_n) - f(x_{n-1})}{x_n - x_{n-1}}$		
x_n	$f(x_n)$			$\frac{f(x_1, \dots, x_n) - f(x_0, \dots, x_{n-1})}{x_n - x_0}$