



















































| x | f(x) | Δf | $\Delta^2 f$ | $\Delta^3 f$ | | $\Delta^n f$ |
|---------------------|------------------------|-------------------------------|---------------------------------|---------------------------------|-----|-----------------|
| x | f(x) | | | | | |
| | | $\Delta f(x)$ | | | | |
| $x + \Delta x$ | $f(x + \Delta x)$ | | $\Delta^2 f(x)$ | | | |
| | | $\Delta f(x + \Delta x)$ | | $\Delta^3 f(x)$ | | |
| $x + 2\Delta x$ | $f(x+2\Delta x)$ | | $\Delta^2 f(x + \Delta x)$ | | | |
| | | $\Delta f(x+2\Delta x)$ | | $\Delta^3 f(x + \Delta x)$ | | |
| $x + 3\Delta x$ | $f(x + 3\Delta x)$ | | $\Delta^2 f(x + 2\Delta x)$ | | | |
| | | $\Delta f(x + 3\Delta x)$ | | $\Delta^3 f(x+2\Delta x)$ | | |
| | | | $\Delta^2 f(x + 3\Delta x)$ | | | |
| : | : | : | : | : | ::: | $\Delta^n f(x)$ |
| $x + (n-2)\Delta x$ | $f[x + (n-2)\Delta x]$ | | $\Delta^2 f[x + (n-3)\Delta x]$ | | | |
| | | $\Delta f[x + (n-2)\Delta x]$ | | $\Delta^3 f[x + (n-3)\Delta x]$ | | |
| $x + (n-1)\Delta x$ | $f[x + (n-1)\Delta x]$ | | $\Delta^2 f[x + (n-2)\Delta x]$ | | | |
| | | $\Delta f[x + (n-1)\Delta x]$ | | | | |
| $x + n\Delta x$ | $f(x + n\Delta x)$ | | | | | |

























