	SINGLE		MULTIPLE	
	average height	Ea	average height	Ea
Trapezoidal	$\frac{f(a)+f(b)}{2}$	$-\frac{1}{12}f''(\xi)(b-a)^3$	$\frac{f(x_0)+2\sum_{i=1}^{n-1}f(x_i)+f(x_n)}{2n}$	$-\frac{(b-a)^3}{12n^2}\bar{f}''$
Simpson's 1/3	$\frac{f(x_0)+4f(x_1)+f(x_2)}{6}$	$-\frac{(b-a)^5}{2880}f^{(4)}(\xi)$	$\frac{f(x_0)+4\sum_{i=1,3,5}^{n-1}f(x_i)+2\sum_{j=2,4,6}^{n-2}f(x_j)+f(x_n)}{3n}$	$-\frac{(b-a)^5}{180n^4}\bar{f}^{(4)}$
Simpson's 3/8	$\frac{f(x_0)+3f(x_1)+3f(x_2)+f(x_3)}{8}$	$-\frac{(b-a)^5}{6480}f^{(4)}(\xi)$		

	SINGLE		MULTIPLE	
	average height	Ea	average height	Ea
Trapezoidal	$\frac{f(a)+f(b)}{2}$	$-\frac{1}{12}f''(\xi)(b-a)^3$	$\frac{f(x_0)+2\sum_{i=1}^{n-1}f(x_i)+f(x_n)}{2n}$	$-\frac{(b-a)^3}{12n^2}\bar{f}''$
Simpson's 1/3	$\frac{f(x_0)+4f(x_1)+f(x_2)}{6}$	$-\frac{(b-a)^5}{2880}f^{(4)}(\xi)$	$\frac{f(x_0)+4\sum_{i=1,3,5}^{n-1}f(x_i)+2\sum_{j=2,4,6}^{n-2}f(x_j)+f(x_n)}{3n}$	$-\frac{(b-a)^5}{180n^4}\bar{f}^{(4)}$
Simpson's 3/8	$\frac{f(x_0)+3f(x_1)+3f(x_2)+f(x_3)}{8}$	$-\frac{(b-a)^5}{6480}f^{(4)}(\xi)$		

	SINGLE		MULTIPLE	
	average height	Ea	average height	Ea
Trapezoidal	$\frac{f(a)+f(b)}{2}$	$-\frac{1}{12}f''(\xi)(b-a)^3$	$\frac{f(x_0)+2\sum_{i=1}^{n-1}f(x_i)+f(x_n)}{2n}$	$-\frac{(b-a)^3}{12n^2}\bar{f}''$
Simpson's 1/3	$\frac{f(x_0)+4f(x_1)+f(x_2)}{6}$	$-\frac{(b-a)^5}{2880}f^{(4)}(\xi)$	$\frac{f(x_0)+4\sum_{i=1,3,5}^{n-1}f(x_i)+2\sum_{j=2,4,6}^{n-2}f(x_j)+f(x_n)}{3n}$	$-\frac{(b-a)^5}{180n^4}\bar{f}^{(4)}$
Simpson's 3/8	$\frac{f(x_0)+3f(x_1)+3f(x_2)+f(x_3)}{8}$	$-\frac{(b-a)^5}{6480}f^{(4)}(\xi)$		

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	average height	Ea	average height	Ea
Trapezoidal	$\frac{f(a)+f(b)}{2}$	$-\frac{1}{12}f''(\xi)(b-a)^3$	$\frac{f(x_0)+2\sum_{i=1}^{n-1}f(x_i)+f(x_n)}{2n}$	$-\frac{(b-a)^3}{12n^2}\bar{f}''$
Simpson's 1/3	$\frac{f(x_0)+4f(x_1)+f(x_2)}{6}$	$-\frac{(b-a)^5}{2880}f^{(4)}(\xi)$	$\frac{f(x_0)+4\sum_{i=1,3,5}^{n-1}f(x_i)+2\sum_{j=2,4,6}^{n-2}f(x_j)+f(x_n)}{3n}$	$-\frac{(b-a)^5}{180n^4}\bar{f}^{(4)}$
Simpson's 3/8	$\frac{f(x_0)+3f(x_1)+3f(x_2)+f(x_3)}{8}$	$-\frac{(b-a)^5}{6480}f^{(4)}(\xi)$		