























$$\left(\frac{h}{2}\right) \times \{f(x_0) + 2 \sum_{i=1}^3 f(x_i) + f(x_4)\}$$

If n is used in place of 4 (or in other words, n=4)

$$\left(\frac{h}{2}\right) \times \{f(x_0) + 2 \sum_{i=1}^{n-1} f(x_i) + f(x_n)\}$$

The above formula is an approximation of definite integral. This approximation gets closer to actual values when n is increased