$$f(x)$$

$$f(x_{i+1})$$

$$f(x_i)$$

$$A_i$$

$$x_i \quad x_{i+1}$$

$$x$$

$$h$$

$$h = x_{i+1} - x_i$$

$$A_i = \frac{h}{2}\left[f(x_i) + f(x_{i+1})\right]$$