习题4-9

- |、梯形公式: $\int_0^1 e^{x^2} dx = \frac{1-0}{2} \left[e^1 + e^0 \right] \approx 1.85 + 911$ | 计物线公式: $\left[\int_0^1 e^{x^2} dx = \frac{1-0}{6} \left[1 + 4e^{\frac{1}{2}} + e^1 \right] \approx 1.47573$

3. †他\$9至公式: $\int_{1.8}^{2.6} f(x) dx = \frac{2.6 - 1.8}{6} \left[f(1.8) + 4 f(2.2) + f(2.6) \right]$ $\approx \frac{0.8}{6} \left[3.12014 + 4 \times 6.04241 + 10.46675 \right]$ $\approx 5.034204 .$

'复化种物鲜公式: $h = \frac{2.6+1.8}{+} = 0.2 \cdot M = 2$,

- - 5. 复化梯形分式排作 $\frac{(1-0)}{12n^2}e^{(21)} = \frac{1}{12n^2}e^{(21)} = \frac{1$

夏水柏纷纷公式:
$$|R| = \left| - \frac{(1-0)^5}{1800^4} e^{52} \right| = \frac{1}{1800^4} e^{52} < 10^{-6}$$

$$\Rightarrow Nmin = 500$$

6.
$$\left(\frac{\sin x}{x}\right)^{(4)} = \frac{4\cos x}{x^2} - \frac{24\cos x}{x^4} + \frac{\sin x}{x} - \frac{12\sin x}{x^3} + \frac{24\sin x}{x^5}$$
,单域.

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,单域.

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