$$c = \frac{a+b}{2}, \quad x_0 = a, \quad x_1 = c, \quad x_0 = b,$$

$$h = \frac{b-2}{2}$$

$$\int_{0}^{\infty} f(x) dx \approx \frac{1}{3} \left[f(x_1) + 4f(x_1) + f(x_2) \right]$$

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$$\int_{0}^{\infty} \int_{0}^{\infty} \ln x \, dx$$

$$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty$$