1) 
$$I = \int_{a}^{2} |h(x^{2})| dx$$
 feller = 10  $\int_{a}^{b} f(x) dx - Rf(h)| = \frac{h^{2}}{24} (b-a) \cdot \max_{x \in La, b \in J} |f'(x)|$ 

1)  $\int_{a}^{30} f(x) dx - Tf(h)| = \frac{h^{2}}{12} (b-a) \cdot \max_{x \in La, b \in J} |f''(x)|$ 

1)  $\int_{a}^{a} f(x) dx - Sf(h)| = \frac{h^{2}}{2860} (b-a) \cdot \max_{x \in La, b \in J} |f''(x)|$ 

$$f(x) = \ln(x^{2})$$

$$f'(x) = \frac{1}{x}$$

$$f''(x) = \frac{1}{x^{2}}$$

$$f''(x) = \frac{1}{x^{2}}$$

$$f''(x) = -\frac{1}{x^{2}}$$

$$f''(x) = \frac{1}{x^{2}}$$

$$f''(x)$$

Trapez regel

15 f(N) - Tf(N) 
$$\leq 10^{5}$$

10  $\leq \frac{1}{12} \cdot 2$ 

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Simpson regel

$$|S^bf(x)| - Sf(h)| \le 10^{-5}$$
 $10^{-5} \le \frac{h^a}{1890} \cdot 1 \cdot \max_{x \in [7/2]} (f^{(4)}x)|$ 
 $10^{-5} \le \frac{h^a}{1890} \cdot \max_{x \in [1/2]} (-\frac{1}{x^a})$ 
 $h \approx 0.21 \cdot 13$ 
 $h \approx 0.21 \cdot 13$ 
 $h = \frac{b-a}{h} = \frac{2-1}{0.1213} \approx 5$