$\mathcal{E} = \left| \frac{\gamma_0 - \gamma_1}{\gamma_3} \right| = \left| \frac{7 - 1}{7} \right| = 0.85714286$

คำวนช้า 7,1,7,1 ...

ものののからいかりはなり メニュネーシャ: 大:

×1+1 = ×1+7

2

	, , , , , ,
1: 1. 1	V . 2 V - 1 1
Iteration 1	X. 13 20 un 0 21

$$\mathcal{E} = \left| \frac{x_1 - x_2}{x_1} \right| = \left| \frac{4 - 1}{4} \right| = 0.75$$

Iteration 2

$$\mathcal{E} = \frac{|x_2 - x_1|}{|x_2|} = \frac{|2.875 - 4|}{|2.875|} = 0.391$$

Iteration 3

$$\mathcal{E} = \left| \frac{x_3 - x_2}{x_3} \right| = \left| \frac{1.6549 - 2.875}{2.6549} \right| = 0.0829$$

Iteration 4

$$C = \left| \frac{x_4 - x_3}{x_7} \right| = \left| \frac{2.6463 - 2.6549}{2.6463} \right| = 0.0032$$

2.9 J& Talor series Puns inunaurinitation
f(x) = ln x
เชื่อ x = 4 โดย x = 2 โดยล่าอับ n vos Taylor series คับแต่ (ก็ง 3 พีร้อมตำแาล
A = 0 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
$f(x) = f(x_0) + (x - x_0) f'(x_0) + \frac{(x - x_0)^2}{2!} f''(x_0) + \dots$
$\frac{1}{(x_0) + (x - x_0) + (x_0) + 2!} \tau(x_0) + \dots$
N=e
f(4) = ln 2 ~ c.6031
7 C, 6931
N = 1
$f(4) = \ln 2 + (4-2) \frac{1}{2} \approx 1.6931$
N=2 $(4-3)(1)$
$f(4) = \ln 2 + (4-2) \frac{1}{2} + \frac{(4-2)^2(-\frac{1}{2})}{2!} \approx 1.93$
N=3
$f(4) = \ln 2 + (4-2)\frac{1}{2} + \frac{(4-2)^2}{2!}(-\frac{1}{2^2}) + \frac{(4-2)^3}{3!}(\frac{2}{2^3}) \approx 1.52648$
Error
EN= 1/n(4) -f(4) = 11.38629-0.6931 = 0.643194
En : Ln(4) - fa(4) 1: 1.38629 - 1.6931 = 0.306806
EN = 1 ln(4) - f2(4) = 11.88629 - 1.1931 = 0.193194
ENS = 1 ln(4) - f3(4) = 11.38629-1.5264] = 0.140106
UNA, TANCTI ISCII