$$\frac{10 \text{ unt}}{10 \text{ ut}} = \frac{(n+1)^{n+1}}{(n+1)^{n+1}};$$

$$\frac{10 \text{ unt}}{10 \text{ ut}} = \frac{(n+2)^{n+2}}{(n+1)^{n+3}} = \frac{(n+2)^{n+2}}{(n+1)^{n+3}} \cdot \frac{n+2}{(n+1)^{n+4}}$$

$$\frac{(n+1)^{n+1}}{(n+1)^{n+1}} = \frac{(n+2)^{n+2}}{(n+1)^{n+2}} \cdot \frac{n+2}{(n+1)^{n+4}}$$

$$\frac{(n+1)^{n+1}}{(n+1)^{n+4}} = \frac{(n+2)^{n+2}}{(n+1)^{n+2}} \cdot \frac{n+2}{(n+1)^{n+4}}$$

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$$\frac{(n+2)^{n+2}}{(n+2)^{n+4}} = \frac{(n+2)^{n+4}}{(n+2)^{n+4}} \cdot \frac{n+2}{(n+2)^{n+4}}$$

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$$\frac{(n+2)^{n+4}}{(n+2)^{n+4}} = \frac{(n+2)^{n+4}}{(n+2)^{n+4}} \cdot \frac{n+2}{(n+2)^{n+4}}$$

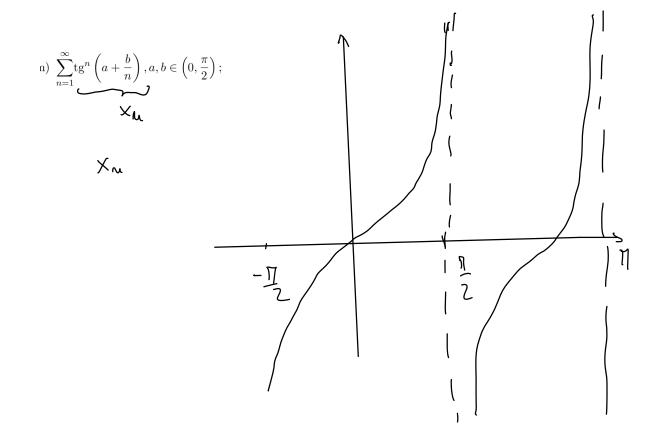
$$\frac{(n+2)^{n+4}}{(n+2)^{n+$$

$$\left(1+\frac{1}{n}\right)^{n} = 0$$

$$\left(1+\frac{1}{n}\right)^{n+1} \cdot \frac{n}{n+1}$$

$$\left(1+\frac{1}{n}\right)^{n} = 0$$

$$\left(1+\frac{1}{n}\right)^{n}$$



oca
$$<\frac{\pi}{2}$$
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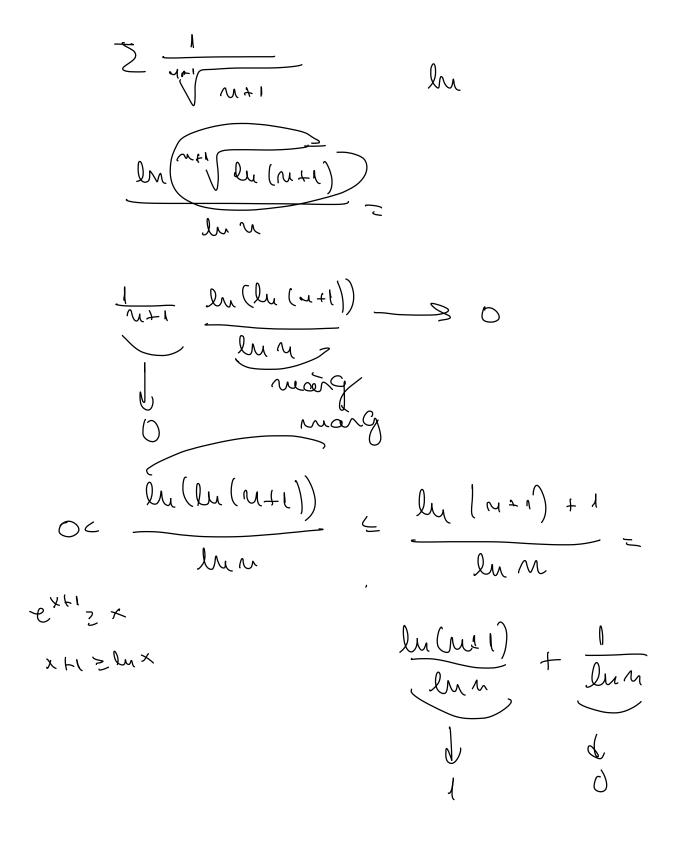
$$\frac{12 \left[\frac{1}{12} \right] }{\sqrt{12} } \frac{1}{\sqrt{12}} = \frac{1}{\sqrt{12} } \frac{1}{\sqrt{12}$$

En 20 Wy sind sunder partial marg

j) (R)
$$\sum_{n=1}^{\infty} \frac{1}{\sqrt[n+1]{\ln(n+1)}};$$

f''(x+x) < x

lm (m+1) < m



Un six Xn f: Masselei f(n/= xn

Drivane se aplica pe mult de tip internal -> Nu pot dentra zinuri

 $X_{n} = \text{Dim} (2\pi.M) = 0 \longrightarrow 0$ $f: \mathbb{R} \longrightarrow \mathbb{R}$ $f(x) = \text{Dim} (2\pi x)$ $f(x) = \text{Dim} (2\pi x)$ $x \rightarrow 0$

Dar dare Set au limité la co? sind are limité

$$\sum_{n=0}^{\infty} (-1)^n \frac{1}{3^{\frac{n}{2}}\sqrt{1+n^2}} \operatorname{tg}^n x, \ x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right);$$

$$\sum_{n=0}^{\infty} \frac{|-1|^n}{(3)^n} \cdot \frac{1}{(4)^n} \times \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n}$$

$$\frac{1}{(1+u^2)^n} \cdot \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} \cdot \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} \cdot \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} \cdot \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} = \frac{1}{(1+u^2)^n} \cdot \frac{1}{(1+u^2)^n} = \frac{1}$$

$$X = \operatorname{andg}\left(-\frac{3}{3}\right)$$

$$X = -\operatorname{andg}\left(\frac{3}{3}\right)$$

$$X = -\operatorname{andg}\left(\frac{3}{3}\right)$$

$$-\frac{1}{3}$$

g) (R)
$$\sum_{n=1}^{\infty} \frac{1! + 2! + ... + n!}{(n+2)!}$$
;

 $\lim_{n \to \infty} x_n = \frac{|x_n|^2}{|x_n|^2} = \frac{|x_n|^2}{|x_n|^$

$$\frac{1[+5]+-+n[+(n+1)]}{(n+3)[+5]+-+n[+(n+1)]} = \frac{1[+5]+-+n[+(n+1)]}{(n+3)[+5]+-+n[+(n+1)]} = \frac{1[+5]+-+n[+(n+1)]}{(n+3)[+5]+-+n[+(n+1)]} = \frac{1[+5]+-+n[+(n+1)]}{(n+1)[+5]+-+n[+(n+1)]} = \frac{1[+5]+--+n[+(n+1)]}{(n+1)[+5]+--+n[+(n+1)]} = \frac{1[+5]+--+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+--+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+5]+---+n[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1)[+n+1]} = \frac{1[+5]+---+n[+n+1]}{(n+1$$

$$\frac{(n+1)!}{(n+1)!} = \frac{(n+1)!}{(n+1)!} = \frac{(n$$

$$X_{N} = \frac{2^{N} + \sin n}{3^{N}} \cdot b^{N}, a, b \in \mathbb{R};$$

$$X_{N} = \frac{2^{N} + e^{N} - e^{-N}}{3^{N}} \cdot b^{N}, a, b \in \mathbb{R};$$

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$$5u = \sum_{k=0}^{N} \left(\frac{q^{1/8}}{3} \right)^{k} + \frac{1}{2} \sum_{k=0}^{N} \left(\frac{e \cdot b}{3} \right)^{k} - \frac{1}{2} \sum_{k=0}^{N} \left(\frac{1}{3} \right)^{k} = \frac{1}{2} \sum_{k=0}^{N} \left(\frac{1}{3} \right)^{k}$$

$$\frac{2}{h_{50}} \times \frac{x^{4}}{x^{-1}} = \frac{1}{2} + \frac{2}{2} +$$

$$\frac{1}{3e} \frac{\left(\frac{1}{3e}\right)^{n+1}}{\frac{3e}{3e}} - 1$$

$$\frac{2}{3e} - 1$$

$$\frac$$