

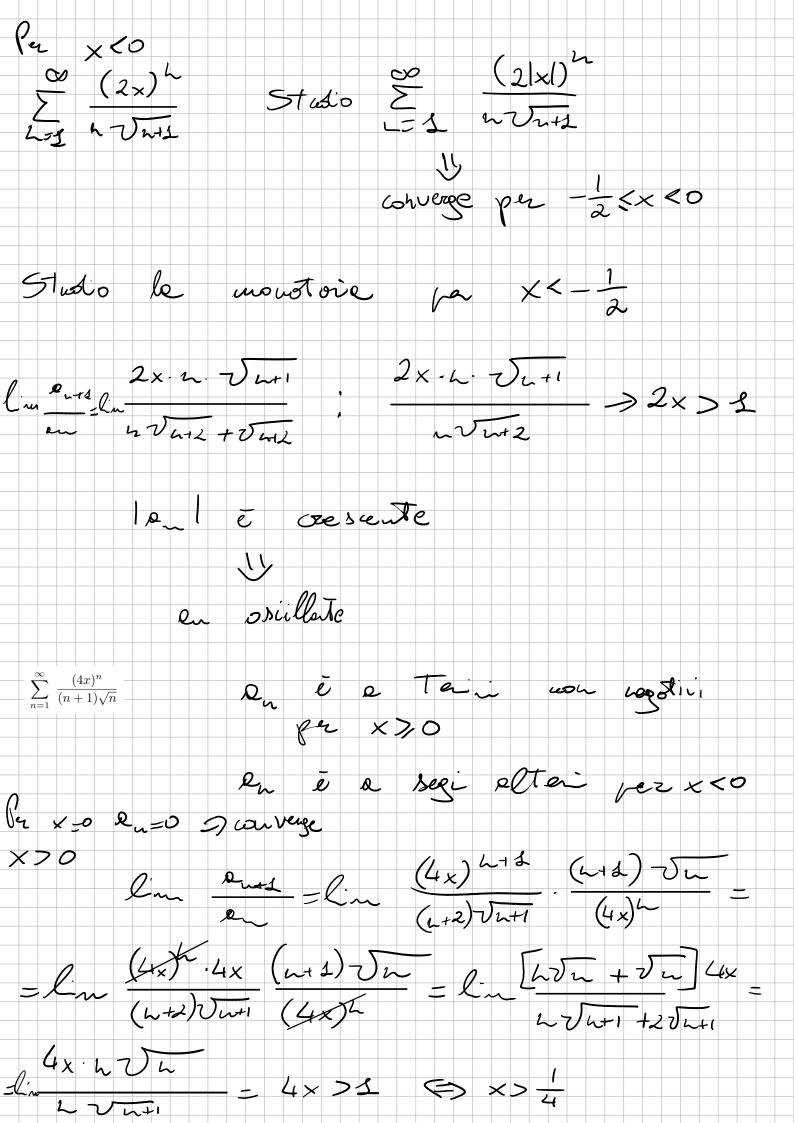
Studo la monotoire

en 2 en 1

$$\frac{n+5}{n^2+4}$$
 $\frac{1}{2}$ $\frac{h+6}{n^2+2n+5}$ $\frac{h+6}{n^2+2n+5}$ $\frac{h+6}{n^2+4}$ $\frac{h+6}{n^2+2n+5}$ $\frac{h+6}{n^2+4}$ $\frac{h+6}{n^2+2n+5}$ $\frac{h+6}{n^2+4}$ $\frac{h+6}{n^2+2n+6}$ $\frac{h+2}{n^2+15n+25}$ $\frac{h+6}{n^2+4n+24}$ $\frac{h+2}{n^2+15n+25}$ $\frac{h+2}{n^2+15n+25}$ $\frac{h+2}{n^2+4n+24}$ $\frac{h+2}{n^2+4n+4}$ $\frac{h+2}{n^2+4n+4}$ $\frac{h+1}{n^2+4n+4}$ $\frac{h+1}{n^2+4$

-osille per x > 1 $\sum_{n=1}^{\infty} 3^{4nx-1} = \sum_{n=1}^{\infty} \frac{3^{4nx}}{3} = \sum_{n=1}^{\infty} \frac{3^{4x}}{3} = \sum_{n=1}^{\infty} \frac{3^{4x}}$ Que diverge le 3 71 >>0 en converge se 34x<2 => x <0 Quado x=0?

2 3-1 = 1 Converge
x=1 $\sum_{n=1}^{\infty} \frac{(2x)^n}{n\sqrt{n+1}}$ Per \times 20 e a tai un legalivi Pa \times 40 e a seçi extei Per x > 1/2 en diverge un que la la en = 100 Par 05x<\frac{1}{2} en tode e 0. potable convergere $\lim_{x \to 2} \frac{(2x)^{k}}{x} \cdot \frac{(2x)^{k}}{2x} \cdot \frac$



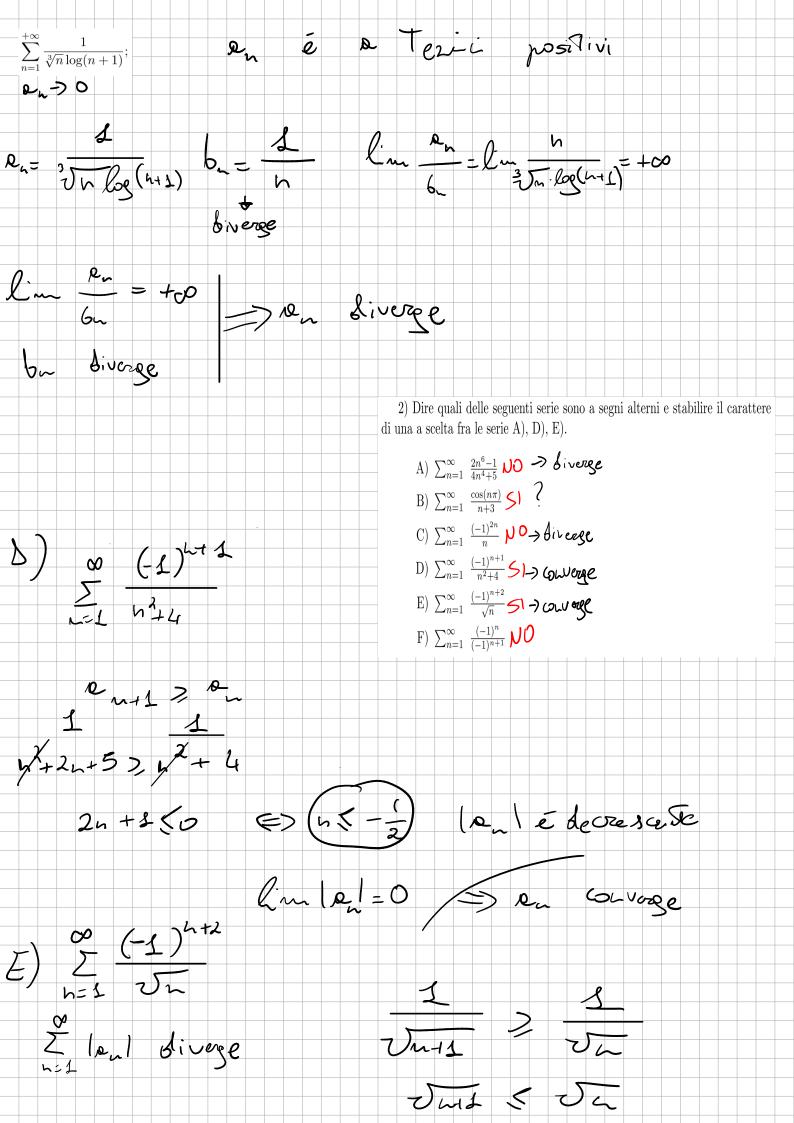
Per x> 1/4 Pu Siverge Per 0 < x < \frac{1}{4} & Ru converge Con Reabe en converge por x = 1 Studio Qu per XCO Par-1(x <0 en colverge 57 as 10 102 x < - 1 $\sum_{n=1}^{\infty} \frac{(4x)^n}{(n+1)\sqrt{n}}$ $\lim_{n\to\infty} \frac{(4|x|)^{n+2}}{(n+2)^{n+2}} \cdot \frac{(n+2)^{n+2}}{(4x)^n} = \lim_{n\to\infty} \frac{(4|x|)^{n+2}}{(n+2)^{n+2}} \cdot \frac{(4|x|)^{n+2}}{(4|x|)^n} = \lim_{n\to\infty} \frac{(4|x|)^{n+2}}{(n+2)^{n+2}} \cdot \frac{(4|x|)^{n+2}}{(n+2)^{n+2}} \cdot \frac{(4|x|)^{n+2}}{(n+2)^{n+2}} = \lim_{n\to\infty} \frac{(4|x|)^{n+$ = 4×151 (=> x> \frac{1}{4} => 1 \on 1 \ta \ \tag{reside} en oscille per × < - \frac{1}{4\epsilon}

$$\sum_{n=1}^{\infty} \frac{(x-2)^n}{n\sqrt{n^2+2n}} \qquad \text{en } e \text{ e. } \text{ Ten: Low negation per } \times > 2$$

$$\times > 2$$

$$\text{CrTcio} \quad \text{d: Ree be}$$

$$\text{lin } L \left(\frac{2n}{4n+1}-1\right) = \text{lin } 2n \left(\frac{2n}{4n+1}\right) \left(\frac{2n}$$



JHEN en é devesale limen = 0 De converge $\sum_{n=1}^{+\infty} \frac{3^n}{n^2(n-1)!}; \begin{cases} 1 & \text{if } 1 \\ 1 & \text{if } 1 \end{cases}$ sere resto di posto I Ille serc equippe, de coverge quist coverge Pa Converge OPPORE civio del reproto 2 m 2 m (m-1)! (h+1)2·h/ 3h 3.36 n2(4.5)! $= \lim_{n \to \infty} \frac{3 \cdot 3}{(n+1)^2 \cdot n \cdot (n+2)!} = 0 < 1 \Rightarrow 0 \quad \text{onverge}$

$$\sum_{n=1}^{\infty} \frac{n}{(n^{2}-1)\sqrt{n}} (x-1)^{n} \quad R_{n} \quad \tilde{U} \quad \tilde{U} \quad \text{to in the legality} \quad Se \times 32$$

$$5 \text{ e.g.} \quad \text{ after} \quad Sc \times 4$$

$$\times 3 \text{ 1.} \quad \left(\text{ Ranke} \right) \left(\frac{x^{2}+2n+2}{\sqrt{n+1}} \right) \sqrt{n+1}$$

$$\left(\frac{n}{(n^{2}+1)\sqrt{n}} \right) \left(\frac{x^{2}+2n+2}{\sqrt{n+1}} \right) \sqrt{n+1}$$

$$\left(\frac{1}{(n^{2}+1)\sqrt{n}} \right) \left(\frac{2-x}{\sqrt{n+1}} \right) = 1$$

$$1 - x + 1 = 1 \text{ If } \frac{2-x}{\sqrt{n+1}}$$

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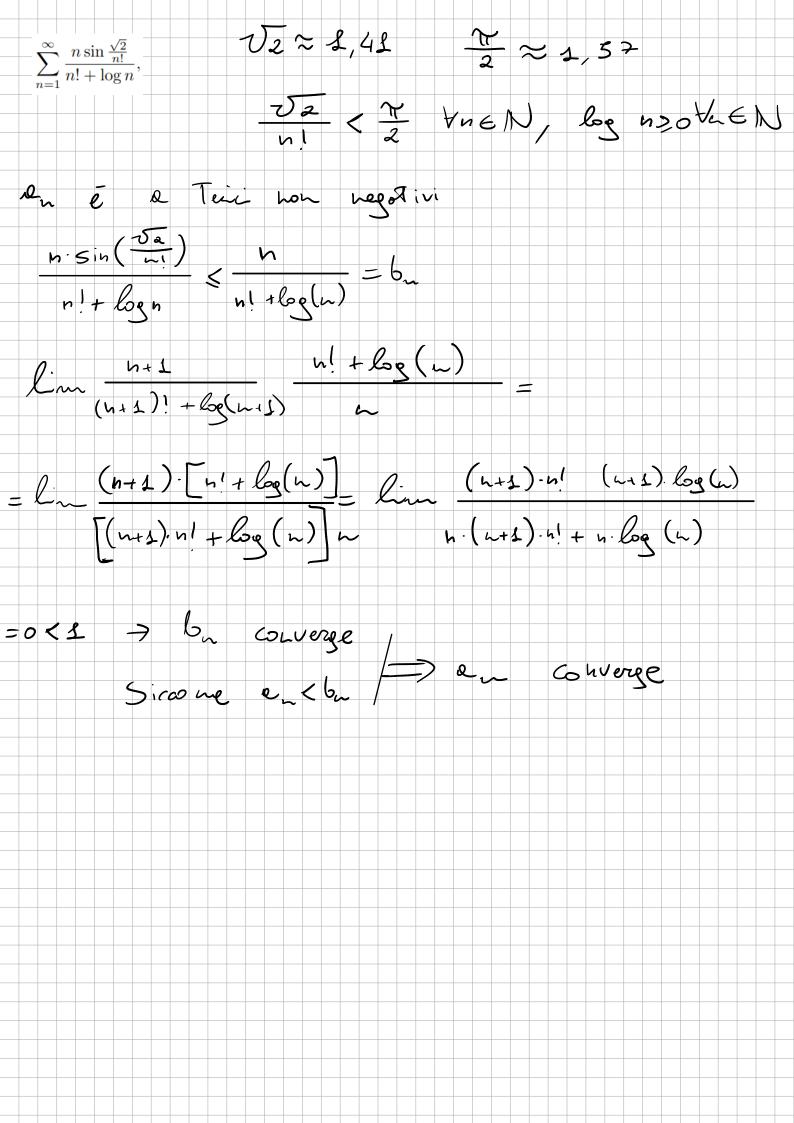
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$$1 - x$$

Per x=2 $P_n=(n^2+1)\sqrt{n}$ $n=\frac{8}{n^2\sqrt{n}}$ de converge Quinti en converge per x=2 Per X<1 $\sum_{n=1}^{\infty} \frac{n}{(n^2+1)\sqrt{n}} (x-1)^n$ Converge per -2< x <- 5 lens | ens | en vese per en vesel per × e o voille Invece par OXXXI (on l'deorètée e sicone lin en=0 4x6R en converge per 0<x<1 Marce x=0. STUDIO le monotoire $\frac{(n+1)}{(n^2+2n+2)}$ $\frac{n}{(n^2+2)}$ $\frac{n}{(n^2+2)}$ (n+1)(n2+1) 2n 2 n (n2+2n+2) In +3 $(h^3 + h^2 + h + 1)$ $\sqrt{h^2}$ $(h^3 + 2h^2 + 2h + 2)$ $\sqrt{h^2}$ ZneN la le decrescate > le convege



$$\sum_{n=1}^{\infty} \frac{n! \sin \frac{\sqrt{n}}{n}}{n! + \log n} \left\langle \begin{array}{c} h \\ h \\ h \\ + k \\ \end{array} \right\rangle = \frac{1}{n! + \log n} \left\langle \begin{array}{c} h \\ h \\ h \\ + k \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{\sqrt{2}}{n!} \left\langle \begin{array}{c} 1 \\ 1 \\ \end{array} \right\rangle = \frac{2$$

