2/2021) 1) lim ellern = 0 NUK  $\int_{n=3}^{\infty} \frac{(-1)^n}{\ln(\ln n)}$ poredbern poredbani-L 2) an  $=\frac{1}{lu(lu n)}$  padajúća ILI  $f(\hat{x}) = \frac{1}{lu(lu x)}$  derivironno & D'Alambert -L Cauchy-L npr. malemat indukaja f'(x) = -1 / (x) / (x) / (x) / (0) / nkyralmi aum rau of Aps. borning. Leibnite & x ≥3 ILI lun - rastrica, yer ispod summe pise n=3) Z 1 Lempozicija rastuáh je rastuća => po Leibnitau c)  $\sum_{n=1}^{\infty} \frac{(-1)^n}{n! (2nn)} = \sum_{n=1}^{\infty} \frac{1}{n! (2nn)} \ge \sum_{n=1}^{\infty} \frac{1}{n! (2nn)} \ge \sum_{n=1}^{\infty} \frac{1}{n! (2nn)}$ UBIT . . lun 4 n /lu lu (lu n) 4 lu n po povedbernom diverzira -> Leibnitz je pre shit za oro Cy i zjerbiš volju za Ži volpum Leibniz 21 2022)  $12 \lim \left(\frac{4}{3}\right) \sin \frac{1}{30}$ Z (-1) 40+1 810 3n Gladomir aps. -> konvergia pa kommigin jo podni red 55 12  $\Sigma \left| (1)^n \left( \frac{4n}{3^n} \right) \right| \sin \frac{1}{3^n} = \mathbb{Z} \left( \frac{4}{3} \right)^n \cos \frac{1}{3^n} = \mathbb$ poredbani  $\sum \left(\frac{4}{3}\right)^n \frac{1}{3^n}$ poredben  $\leq \sum_{i=1}^{n} \left(\frac{4}{3}\right)^n \cdot 1$ I (4) 2 26/ Gouve-gig 4 aiversin nenna resultati

$$\frac{21-28-1)}{2} = \frac{50}{103+1} \ln \left(1\left(\frac{1}{30}\right)\right)$$

$$\frac{50}{103+1} \ln \left(1\left(\frac{1}{30}\right)$$

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$$\frac{50}{103+10} \ln \left(1\left(\frac{1}{30}\right)$$

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$$\frac$$

$$\frac{\text{div}}{n} = \frac{5^n}{\sqrt{n^3}} \cdot \frac{1}{3^n} = \frac{2^n}{\sqrt{3^n}} \cdot \frac{1}{\sqrt{3^n}} \cdot \frac{5}{\sqrt{3^n}} \cdot \frac{5$$

5) 
$$\sum_{n=1}^{\infty} \frac{\sin^2\left(\frac{1}{n}\right)\cos(n)}{\cos^2\left(\frac{1}{n}\right)\cos(n)}$$
poè myer à prederit
yer je zhag cos!

ne troa
$$7 \sin^2\left(\frac{1}{n}\right)\cos(n)$$

env: 
$$Z \sin^2(\frac{1}{n}) |\cos(n)|$$

leni:  $Z \sin^2(\frac{1}{n}) |\cos(n)|$ 
 $Z \sin^2(\frac{1}{n}) |\cos(n)|$ 

aps. Eonv: 
$$Z \sin^2(\frac{1}{n}) |\cos(n)|$$

porcalleni:  $\angle Z \sin^2(\frac{1}{n}) |\sin(x)| \times |\cos(x)|$ 

povedbeni wines: 
$$\sqrt{\sum_{n=2}^{\infty} n^2} \sim \int_{-\infty}^{\infty} dx$$
 dimes