Note Title 12/1/2022

MIPOCITATIO SUCCET RADU Z a POMOCOU POSTUPNOSTI N=1 M CIASTOCINICA SÚCTOU

(a)
$$\frac{5}{2} \frac{1}{n-1(n+1)(n+4)} = \frac{1}{3} \frac{5}{n-1} \frac{1}{n+1} \frac{1}{n+4}$$

$$A + B = 1$$
 $h+4$
 $A = \frac{1}{3}$
 $B = -\frac{1}{3}$

$$=\frac{1}{3}\left[\left(\frac{1}{2}+\frac{1}{3}+\frac{1}{5}+$$

$$A = \lim_{n \to \infty} A_n - \frac{1}{3} \lim_{n \to \infty} \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{4} - \frac{1}{n+2} - \frac{1}{n+3} \right)$$

$$= \frac{1}{3} \lim_{n \to \infty} \frac{6+4+3}{12} = \frac{13}{36}$$

$$\frac{A}{n-13} + \frac{B}{n+1} \qquad A = -1$$

$$=\lim_{n\to\infty} \left(\frac{1}{2} + \frac{1}{3} - \frac{1}{n+2} - \frac{1}{n+3} \right) = \frac{5}{6}$$

(FRED ZISTITE, CI RAD 2 1 KONVERRUDE
	ALOGO DIVERGUJE
	$\frac{2}{2} 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{5} + \frac{1}{5} + \dots$
	VERBNE POSTUPARST CASTOCATCH SÚCTOU M = 1
	$A_2 = 1 + \frac{1}{2}$
	$A_{4} = 1 + \frac{1}{2} + \left(\frac{1}{3} + \frac{1}{4}\right)$ $ > 1 + \frac{1}{2} + \left(\frac{1}{3} + \frac{1}{4}\right) $
	$S_{g} = 1 + \frac{1}{2} + \left(\frac{1}{3} + \frac{1}{4}\right) + \left(\frac{1}{4} + \frac{1}{4} + \frac{1}{4}\right) + \left(\frac{1}{4} + \frac{1}{4}\right$
	$\frac{1}{2} \frac{1}{2} \frac{1}{1+3} \frac{1}{2}$
•	lim (1+m. 1) m > 2)
	MINDRANTNÍ Z RADU
	RAD Z 1 SA MAZÝVA HAROTONICKÝ KAD A
	DIVERCUJE !
	PRES DOKAZITE, ZE RAD Z an JE DIVERGENTOS'
	(DUTRIME NUTH PODMITURE KONVERGENCIE RADU,
	T.J. $\lim_{N\to\infty} \alpha_N = 0$ $N \leq 1$ $PLATIT$

(a)
$$\lim_{N\to\infty} \frac{h-1}{n+1} = 1 \neq 0 \Rightarrow K+3 \frac{g}{g} \frac{h-1}{n+1} \text{ Sintlass}$$

(b) $\frac{g}{g}$ and $\frac{g}{h-2}$ $\lim_{n\to\infty} \frac{g}{h-2} = \frac{1}{2} \neq 0$

(c) $\frac{g}{g}$ $\frac{g}{h-2}$ $\frac{g}{h-$

$$C = \frac{1}{3} + \frac{c^{2}}{5} + \frac{c^{3}}{27} + \dots = \frac{c}{3} / 1 + \frac{c}{3} + \frac{c^{2}}{5} + \dots$$

$$q = \frac{c}{3} / 1 \Rightarrow \text{R40 EQU.} \quad A = \frac{c}{3} = \frac{c}{3}$$