Sa se determine natura si suma seriilor urmatoare

$$\sum_{n=0}^{\infty} \frac{1}{n^2+3n+2}$$

$$\sum_{n=0}^{\infty} \ln\left(1-\frac{1}{n^2}\right)$$

$$\sum_{n=0}^{\infty} \ln\frac{n+1}{n}$$

$$\sum_{n=1}^{\infty} \frac{1}{\sqrt{(n)+\sqrt{(n+1)}}}$$

$$\sum_{n=1}^{\infty} \frac{3^n+(-2)^{n+1}}{6^n}$$

Studiati convergenta seriilor

$$\sum_{n=0}^{\infty} \frac{1}{3^n+4^n}$$

$$\sum_{n=0}^{\infty} 2^n \sin\frac{\pi}{4^n}$$

$$\sum_{n=0}^{\infty} \frac{n+1}{n^3+2n+1}$$

$$\sum_{n=0}^{\infty} \frac{\sqrt{n}}{n+1}$$

$$\sum_{n=0}^{\infty} (\sqrt{n^2+n}-n)$$

$$\sum_{n=0}^{\infty} \frac{n^2}{3^n}$$

$$\sum_{n=0}^{\infty}\left(\frac{n+1}{n}\right)^{n^2}\cdot a^n, a>0$$

$$\sum_{n=0}^{\infty}(-1)^n\frac{1}{\sqrt{n(n+1)}}$$

$$\sum_{n=1}^{\infty}\sin\frac{1}{n\sqrt{n}}$$

$$\sum_{n=1}^{\infty}\frac{n!}{(a+1)(a+2)\cdots(a+n)}, a\in\mathbb{R}$$

$$\sum_{n=1}^{\infty}\frac{\sqrt{n+2}-\sqrt{n}}{n}$$

$$\sum_{n=1}^{\infty}\left(\frac{2n+1}{3n+2}\right)^{\frac{n^2}{n+2}}$$

$$\sum_{n=1}^{\infty}\frac{n!}{n^n}$$

$$\sum_{n=1}^{\infty}\frac{\ln n}{2n^3+1}$$

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Pag 101: 1,4,5,6,10,11,12,13
Pag 119: 1,2,3
Pag 141: 1,2,3,4,10,11
pag 144: 1,2,3,4
pag 148: 1,2
pag 203: 1,2,4
pag 222: 1,2,3,5
pag 228: 2,3,4,5