La se studiese connergento unnatooreloi serie:

à Criterial comparatiei

1.
$$\frac{27}{n^21} \frac{n + 1 - \sqrt{n}}{n}$$
 2. $\frac{2}{n^2 + 2}$

3.
$$\frac{1}{2}$$
 $\frac{1}{2}$ \frac

5.
$$\sum_{n=1}^{\infty} \sqrt{n^{\frac{1}{4}} + 3n + 1} - n^{2} = 6$$
. $\sum_{n=1}^{\infty} 2^{n} \min_{\frac{1}{4}n} \frac{11}{4^{n}}$

& Critain rapartules

7.
$$\frac{\sum_{n \geq 1}^{7} \underbrace{x^{n}}_{0.3m}}{\sqrt{\sum_{n \geq 1}^{3} m}} \underbrace{x > 0 } \sqrt{8}. \underbrace{\sum_{n \geq 1}^{7} \underbrace{x^{2m}}_{n^{2}+1}} \underbrace{x^{70}}_{n^{2}+1}$$

$$\sqrt{9} \quad \frac{2^{m} m!}{m^{m}} \qquad \sqrt{10} \quad \frac{1}{m^{m}} \quad \frac{4^{m} m!}{m^{m}}$$

$$11 \sum_{m \geq 1} \frac{(m!)^2}{(2m)!}$$

Contenial radicalalue

V12. $\mathbb{Z}_{1}^{m} \stackrel{\mathcal{H}}{\underset{\mathcal{H}}{\mathcal{H}}} (1 + \frac{1}{n}) \stackrel{\mathcal{H}}{\underset{\mathcal{H}}{\mathcal{H}}} 13. \mathbb{Z}_{1} \left(\frac{3 + (-1)^{m} \cdot 2}{4} \right)$

16).
$$\overline{Z} = \frac{(M!)}{(3+\sqrt{1})(3+\sqrt{2})} = (3+\sqrt{m})$$

17).
$$\frac{1!+2!+..+m!}{(m+2)!}$$

18).
$$\frac{1}{n^2}$$
 $\frac{1}{n^2}$ $\frac{1}{n^2}$

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$$21)$$
 \mathbb{Z} $\mathfrak{X}^{\mathfrak{M}}$ $\min \frac{1}{\mathfrak{M}^{\mathfrak{A}}}$ 270 $22)$ \mathbb{Z} $\mathfrak{X}^{\mathfrak{M}}$ $\operatorname{arctg} \frac{1}{\mathfrak{M}^{\mathfrak{A}}}$ $261R$
 $21)$ \mathbb{Z} $\mathfrak{X}^{\mathfrak{M}}$ $\min \frac{1}{\mathfrak{M}^{\mathfrak{A}}}$ 270 $22)$ \mathbb{Z} \mathfrak{M} \mathfrak{M}

21)
$$\mathbb{Z}^{n}$$
 \mathbb{Z}^{n} $\mathbb{Z}^$

25)
$$\frac{1}{25}$$
 $\frac{1}{25}$ $\frac{1}{$

26)
$$\sum_{n=1}^{7} \chi^{n}(a - \sqrt{e})(2 - \sqrt{2}\sqrt{a}) - (2 - \sqrt{2})$$
 $\chi \in \mathbb{R}$

lezalván

$$a_n = \frac{1+\frac{1}{2}+\dots+\frac{1}{m}}{m}$$

9) lim
$$\frac{\alpha_{n+1}}{\alpha_n} = \lim_{n \to \infty} \frac{2^{n+1}(\alpha n) + n^n}{(1+n)^{n+1}} = 2\left(\frac{n}{n+1}\right)^n$$

19)
$$\lim_{M \to 0} m \left(\frac{an}{an+1} - 1\right) = \lim_{M \to 0} m \left(\frac{n+7}{a+n+1} - 1\right) = \lim_{M \to 0} m \left(\frac{n+7}{a+n+1$$

Doea 1+121 seria est als. conv 1+171 seria este direcguta (an +0) 1+1=1 (X21) Conv 221 din 231 lim 1 = 1 27 (-1) M rin 1 121 1 10=) mm 1 10 =) 271 abalut lonnelgenta OL Sie 1 semi can udgemta.