La se studiese connergento unnatorelos serie:

@ Criterial comparation

1. 
$$\frac{27}{2}$$
  $\frac{m m}{3m^2 + 2}$ 

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

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 raportules

7. 
$$\frac{\sum_{n \geq 1}^{7} \frac{x^{n}}{n \sqrt{\sum_{n = 1}^{7} n}} x > 0 \quad 8. \quad \sum_{n \geq 1}^{7} \frac{x^{2n}}{n^{2} + 1} \frac{m \sqrt{n}}{n^{2} + 1} x > 0$$

$$9 \frac{\sum_{n=1}^{\infty} \frac{2^m n!}{n^m}}{n^m} = 10 \frac{\sum_{n=1}^{\infty} \frac{4^m n!}{n^m}}{n^m}$$

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

C. Criterial radicalalue

12.  $\sum_{n \neq 1}^{\infty} \chi^{n} \cdot \left(1 + \frac{1}{n}\right) \chi_{70}$ 13.  $\sum_{n \neq 1}^{\infty} \left(\frac{3 + (-1)^{n} \cdot 2}{4}\right)^{n}$ 

$$\frac{14. \sum_{n \neq i} \left(\frac{a_{n+1}}{b_{n+1}}\right)^{n} a_{i} a_{i} a_{i} 0}{\left(\frac{a_{n}}{b_{n+1}}\right)^{n} a_{i} a_{i} a_{i} 0} = \frac{15. \sum_{n \neq i}^{n} n^{(-1)} a^{n}}{a^{n}} a_{i} 0.$$

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

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

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

© Semi cu lement  

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

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.