(i) 
$$\lim_{x \to 0} \frac{\sin(\log(1+2x)) - e^{2x} + 1}{t_3(x^2)}$$

(ii) 
$$\lim_{x \to 0} \frac{\log(\cos x) + \log(e^x - x) - \frac{x^3}{6}}{x^3 \operatorname{arctg} x}$$

(iii) 
$$\lim_{x\to 0} xe^x - \log(x+x)$$

(iv) 
$$\lim_{\chi \to 0} \frac{\sin \chi \cdot e^{\chi} - 2\sqrt{1+\chi} + 2}{\log c_1 + \chi^2}$$

(v) 
$$\lim_{\chi \to 0} \frac{e^{\alpha(1-\chi)} - \sin \chi + \log(1+\chi^2) - 1}{\chi^2}$$

0 meno  
(i) 
$$\sum_{n=1}^{+\infty} \frac{1-e^{\sqrt{\frac{1}{n}}}}{n}$$
 (ii)  $\sum_{n=1}^{+\infty} \frac{n+3}{n^3-n^2+4}$ 

$$(iii) \sum_{N=2}^{+\infty} \frac{1}{\sqrt{N^3 - N^2}}$$

$$(iV)$$
  $\sum_{n=1}^{+\infty} \frac{(n+2)^n}{n^{n+2}}$ 

$$(V)$$
  $\sum_{N=1}^{+\infty} \frac{1}{N} - \frac{1}{N+1}$ 

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

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

$$(Viii) \sum_{h=1}^{+\infty} \frac{1}{h!}$$