Test to convergence of the following

(i)
$$\frac{1}{1} + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + - = \sum \frac{1}{n!}$$

$$(i) \geq \frac{n}{n^n}$$

$$(w) \sum \frac{n!}{n_k}$$

$$\frac{1}{2}$$

$$(V)$$
 $\sum \frac{\alpha^{\gamma}}{2^{\gamma}+\alpha^{\gamma}}$ $(27a)$

$$\sqrt{1}$$
 $\frac{\chi}{1.2} + \frac{\chi^2}{2.3} + \frac{\chi^3}{3.4} + ----$

$$\sqrt{ii}) \qquad \sum_{h=0}^{\infty} \frac{2^{h}+5}{3^{h}}$$

$$\sqrt{n!} \qquad \frac{\sqrt{n!}}{\sqrt{n!}} \qquad \frac{\sqrt{n!}}{\sqrt{n!}}$$

$$ix)$$
 $\geq \frac{4^n n! n!}{(2n)!}$

$$(x)$$
 $1+\frac{2}{2}+\frac{2}{3}+\frac{2}{5}+\frac{2}{10}+\cdots=\sum_{n=1}^{\infty}\frac{2^n}{n!+1}$.