

Polomär konvergence

$$\textcircled{1} \sum_{n=1}^{\infty} \frac{x^n}{n^2}$$

$$\textcircled{2} \sum_{n=1}^{\infty} \frac{(n!)^2}{(2n)!} x^n$$

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

$$\textcircled{4} \sum_{n=0}^{\infty} \frac{\alpha(\alpha-1)\dots(\alpha-n+1)}{n!} x^n$$

$$\textcircled{5} \sum_{n=0}^{\infty} \frac{2^n}{n^2} x^n$$

$$\textcircled{6} \sum_{n=0}^{\infty} \frac{n}{x^n}$$

$$\textcircled{7} \sum_{n=0}^{\infty} \frac{1}{2n+1} \left(\frac{1-x}{1+x}\right)^n$$

$$\textcircled{8} \sum_{n=0}^{\infty} n e^{-nx}$$

$$\textcircled{9} \sum_{n=0}^{\infty} \left(1 + \frac{1}{n+1}\right)^{-n^2} e^{-nx}$$