Bai tap. Trans, 4

Tim mien hoi ty coa chus ham

$$\lambda_1 \sum_{n=1}^{\infty} \frac{\lambda}{\ell_n^n x}$$

$$J_{1} \sum_{N=1}^{\infty} \frac{1}{\ell_{N}^{n} x} \qquad Z_{1} \sum_{N=1}^{\infty} \frac{x^{N}}{x^{N} + N} \qquad 1 < 70$$

$$3) \sum_{n=1}^{\infty} \frac{\sqrt{x}}{2^{nx}+1}$$

$$4, \sum_{n=4}^{\infty} \frac{1}{(X+n)(X+n+1)} \qquad 5, \quad \sum_{n=4}^{\infty} n! \times^{n!}$$

$$5) \sum_{n=4}^{\infty} n! \times^{n!}$$

$$\int_{N=1}^{\infty} \frac{\sin(nx)}{e^{nx}}$$

$$\frac{1}{2^{n}} \sum_{n=1}^{\infty} \left(x^{n} + \frac{1}{2^{n} \times n} \right) \qquad \text{S} \sum_{n=1}^{\infty} \left(x^{2} + \frac{1}{n} \right)^{n} \qquad \text{S} \sum_{n=1}^{\infty} \frac{x}{(1+x^{2})^{n}}$$

$$8) \sum_{N=4}^{\infty} \left(\times^2 + \frac{1}{N} \right)^N$$

$$9) \sum_{n=1}^{\infty} \frac{x}{(1+x^{2})^{n}}$$

$$(10)$$
 $\sum_{N=1}^{\infty} \frac{\times^{N}}{\times^{2N} + 1}$

$$10) \sum_{N=1}^{\infty} \frac{x^{N}}{x^{2N}+1}$$

$$11) \sum_{N=1}^{\infty} N^{N} a_{N} c_{N} \left(\frac{x}{2^{N}x}\right)$$

$$11) \sum_{N=1}^{\infty} 8^{N} N^{2} s_{N} s_{N$$

$$11) \sum_{N=1}^{\infty} 8^{N} N^{2} Sin \times$$

$$13, \sum_{n=1}^{\infty} \sin\left(\frac{x \ln n}{x - n}\right) \qquad 14, \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n \ln |x|} \qquad 15, \sum_{n=1}^{\infty} \frac{\cos(nx)}{2^{nx}}$$

$$14) \sum_{N=1}^{\infty} \frac{\left(-1\right)^{N+1}}{N^{l_{ml_{x}l_{x}l_{x}l_{x}}}}$$

$$45, \sum_{N=1}^{\infty} \frac{Co(nx)}{2^{nx}}$$

$$16 \sum_{n=1}^{\infty} \frac{(-1)^n \sqrt{n^2+1}}{n^2+n+1} \left(\frac{4x-1}{x+1}\right)^n \qquad 17) \sum_{n=1}^{\infty} \frac{x^n}{2^n+3^n} \qquad 17) \sum_{n=1}^{\infty} \frac{x^n}{(n!)^2}$$

$$17) \sum_{n=1}^{\infty} \frac{x^n}{2^n + 3^n}$$

$$17) \sum_{n=1}^{6} \frac{x^n}{(n!)}$$

$$15 \sum_{n=1}^{\infty} \frac{(x+5)^{2n-1}}{4^n n^2}$$

$$15, \frac{2}{2^{n}} \frac{(x+5)^{2n-1}}{4^{n} n^{2}}$$

$$20, \sum_{n=1}^{\infty} \left[1 + \frac{(-1)^{n}}{n}\right] \times n^{2} = 1$$

$$15, \sum_{n=1}^{\infty} \frac{(x+2)^{n}}{4^{n} n^{2}}$$

$$21, \sum_{N=1}^{\infty} \frac{(X+Z)^{N}}{N^{n}}$$

$$n_{1} \sum_{n=1}^{\infty} \frac{\left(-1\right)^{n+1}}{Q^{n \sin X}}$$

$$25, \sum_{N=1}^{\infty} \frac{1}{\ln(x+e)}$$
 $25, \sum_{N=1}^{\infty} \frac{N^5 \times 2N+1}{(N+1)!}$

$$25 \sum_{N=1}^{\infty} \frac{N^{5} \times 2N+1}{(N+1)!}$$

Tinh ting we chow hom so

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

$$1 \int_{N=0}^{\infty} \left(1 + \frac{2}{3^{N+1}}\right) x^{N}$$

$$31)$$
 $\sum_{n=4}^{\infty} (2^n - n) \times^{n+n}$

$$\frac{15}{2} = \frac{(-1)^{N_{\tau}1}}{3n-2}$$

$$35_{7} \quad \frac{2}{2} \frac{1}{(2n)!!}$$

$$26) \sum_{N=1}^{\infty} \frac{\times^{N}}{N(n+1)}$$

$$30) \sum_{n=1}^{\infty} \frac{x^{2n+2}}{(2n+1)(2n+1)}$$

$$J_{2}, \sum_{N=1}^{\infty} \frac{x^{4N-3}}{4n-3}$$

$$34) \sum_{n=1}^{\infty} \frac{2n+1}{5^n}$$

$$\int_{n=1}^{\infty} \frac{2n+1}{(2n)!}$$

Khai trićn ham so thank church Maclaurin

37) $y = \frac{1}{1+x+x^2}$ 34) $y = \frac{x}{4+x^4}$ 35, $y = \int \frac{\sin t}{t} dt$ 40) $y = \ln(x^2 + 3x + 2)$ 41, $y = \sqrt{8+x}$ 42) $y = x \ln(x + x)$ 41, $y = av(\sin x)$ 44, $y = \ln(x + \sqrt{x^2 + 1})$ 45, $y = av(\tan x)$ 46) $y = x e^{x^2}$ 47) $y = (av(\sin x)^2$ 50) $y = \sin^3 x$ 18 Khai trićn ham so thank church luythu a (x + x)18 June 19 June 1