SUME KOSÉ SÉ ÉESTO POJAVLSUSU

$$\sum_{n=0}^{\infty} x^{n} = \frac{1}{1-x} \sum_{n=m}^{\infty} x^{n} = \frac{x^{m}}{1-x} \sum_{n=0}^{k} x^{n} = \frac{1-x^{k+1}}{1-x}$$
 by Agwen & Vrouski

$$\sum_{n=0}^{\infty} (x+1) x^{n} = \sum_{n=0}^{\infty} (x^{n+1})^{1} = \left(\sum_{n=0}^{\infty} x^{n+1}\right)^{1} = \left(\sum_{n=0}^{\infty} x^{n}\right)^{1} =$$

$$\sum_{n=0}^{\infty} \frac{x^n}{n!} = e^x \quad \left(a \text{ lo je } -x = > e^{-x}\right)$$

$$\sum_{n=1}^{\infty} \frac{x^n}{n} = -\ln(1-x) \left(aho je -x \Rightarrow -\ln(1+x)\right)$$

$$\frac{\sum_{k=0}^{\infty} \frac{(-1)^k}{(2k)!} x^{2k} = \cos x}{\sum_{k=0}^{\infty} \frac{(-1)^k}{(2k+1)!} x^{2k+1}} = \sin x$$
Maclaurin

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

$$\sum_{n=0}^{\infty} \frac{x^{2n}}{(2n)!} = \cosh(x)$$

$$\sum_{n=0}^{\infty} \frac{x^{2n+1}}{(2n+1)!} = \sinh(x)$$