$$\operatorname{Sh} x = \sum_{k=0}^{\infty} \frac{x^{2k+1}}{(2k+1)!} \qquad \text{per ogni } x \in \mathbb{R}$$

$$\operatorname{Ch} x = \sum_{k=0}^{\infty} \frac{x^{2k}}{(2k)!} \qquad \text{per ogni } x \in \mathbb{R}$$

$$\log(1+x) = \sum_{k=1}^{\infty} (-1)^{k+1} \frac{x^k}{k} \qquad \text{per } |x| < 1$$

$$\text{per } \alpha \in \mathbb{R} \quad (1+x)^{\alpha} = \sum_{k=0}^{\infty} \binom{\alpha}{k} x^k \qquad \text{per } |x| < 1$$

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

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

$$e^x = \lim_{n \to +\infty} \sum_{k=0}^{n} \frac{x^k}{k!} = \sum_{k=0}^{\infty} \frac{x^k}{k!} \qquad \text{per ogni } x \in \mathbb{R}$$

$$e^{ix} = \cos x + i \sin x \qquad \cos x = \frac{e^{ix} + e^{-ix}}{2}$$

$$e^{-ix} = \cos x - i \sin x \qquad \sin x = \frac{e^{ix} - e^{-ix}}{2i}$$