$$\begin{bmatrix}\alpha\\ n\end{bmatrix} = \prod_{i}^{n} \frac{\alpha - i}{n - i} = \frac{\alpha - 0}{n - 0} \cdot \frac{\alpha - 1}{n - 1} \cdots \frac{\alpha + 1 - n}{n + 1 - n}$$

$${}^{1+x}\not{\mathfrak{e}} = \sum_{n > 0} \frac{x^n}{n}$$

$$\overbrace{1 - x}^{\alpha} = \sum_{n}^{\mathbb{N}} \begin{bmatrix}\alpha\\ n\end{bmatrix} x^n$$

$$\overbrace{1 - x}^{-1} = \sum_{n}^{\mathbb{N}} x^n$$

$${}^{x}\not{\mathfrak{t}} = \sum_{n}^{\mathbb{N}} \frac{\overset{n}{-1} x^n}{2n + 1}$$

$${}^{x}\not{\mathfrak{s}} = \sum_{n}^{\mathbb{N}} \frac{\overset{n}{-1} x^n}{2n + 1}$$