



$$(1+x) = \binom{n}{x} + \binom{n}{1} \times + \binom{n}{2} \times + \cdots$$

$$+ \binom{n}{n-1} \times + \binom{n}{n} \times + \binom{n}{2} \times + \frac{n(n-1)(n-2)}{3!} \times + \cdots$$

$$(1+x) = 1 + nx + \frac{n(n-1)}{2} \times + \frac{n(n-1)(n-2)}{3!} \times + \cdots$$

















