

$$\binom{r}{r} \binom{r}{r} = \frac{r!}{r!} \times \frac{r!}{r!} = 1$$

(14)

$$\frac{n!}{r!s!} = \frac{n \times n \times \dots \times n}{r \times r \times \dots \times r \times s \times s \times \dots \times s} = \dots$$

(18)

e^0

(19)

$$1 + n + \binom{n}{2} + \dots + 2^n$$

(20)