



Advent of Mathematical Symbols

Binomial coefficient: $\binom{n}{k} = \frac{n \cdot (n-1) \cdots (n-k+1)}{k!} = \frac{n!}{k!(n-k)!}$

① ② ③ ④ ⑤ ⑥ ⑦
 Take: $k=3$ ② ③ ⑥
 or ⑤ ⑥ ⑦ ...

$n=7$

$\frac{n \cdot (n-1) \cdot (n-2)}{3 \cdot 2 \cdot 1}$