Combinatorial Proof
1. Steps:
12. 浪发情景
2). 解释有个term
3). Conclude.
2. 草见构造
1).看到 三():想 additional rule (一件事,不同方式).
1) 看到 Z()(): 中有 times, 想 multiplication rule (一许事, 不同所获).
3). \[\sum = \sum \(\sum \) :
同一件事.(不是和 三口)
40. k^n : All # of X -string, length = n , $X = \{1,, k\}$.
$e.g. 7^n = \sum_{i=1}^n C_i^n (i) 6^i$
The number of X-string constructed from X = 51,, 73 with beigth u.
LHS: construct number of X-string, length n where x = \$1,, 7].
KHS: 6 : construct number of x2-string, beigth i. where . X2 = §1,, 6].
C'i) b': # of X-string, length = n; n-i positions are 7, and the rest
j position 1-6.
$\frac{1}{\sqrt{2}}(\frac{n}{2})\cdot 6^{\frac{1}{2}}$ # of x -estring length n , $x = 51, \dots, 73$. The positions of 1-6.
from 1 to 11 covering all cases.
Conclude:
5). K. (k): choose k from n; choose 1 from k.
$n \cdot \binom{n-1}{k-1}$: Choose I from n ; Choose $k-1$ from $n-1$.
set all to diff
6). $(a+b)$: a blue, b recl, choose of from $a+b$.
7)-C-1) *: Inclusion - Exclusion.