

### Second Hint for Problem 86-c

A notation for the sum over all colorings  $c$  of  $K_m$  is  $\sum_{c:c \text{ is a coloring of } K_m}$ ,  
and a notation for the sum over all subsets  $N$  of  $M$  that have size  $n$  is  
 $\sum_{N:N \subseteq M, |N|=n}$ .