MATH 532

 $f(\phi) = \sum_{y} (-1)^{y} f(y)$ A ambient set  $f(\phi) = \sum_{y} (-1)^{y} f(y)$   $f(y) = \sum_{y} (-1)^{y} f(y)$ 

 $\underline{Gx}$ .  $f = (T) = {\text{we} S_n \mid f: xelpt of } \omega \text{ are exactly } T}$ here.  $f_{\geq}(T) = \# \{ \omega \in S_n \mid \omega(i) = i \text{ if } i \in T \}$ cesy to court dreing.

f<sub>2</sub>(y) = (n-#y)!, | f #y- #X, Same court.  $\Rightarrow f(\emptyset) = \sum_{k=0}^{n} (-1)^{k} {n \choose k} (n-k)!$ deraymets choose Y of size k  $f_{\geq}(Y)$ .

 $f_{-}(\emptyset) + \sum_{i} f_{2}(y) = \sum_{i} f_{2}(y)$ #Yodd #Your

T: M U M Tyour

No property in S (21, 7, 2)

( $\pi$ ,  $\phi$ ,  $\phi$ )

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Example 1

Example 2

Example 2

Example 2

Example 2

Example 2

Example 3

Example 3

Example 4

Example 4

Example 4

Example 4

Example 5

Example 6

Example 6

Example 6

Example 7

Example 6

Example 7

Example 7

Example 6

Example 7

Example 8

Example 7

Examp write the sets M, N, N' livery tree map.  $M = \{231, 312\}$ 

2 molitier en NUN' satisfy:

- · If &(x)=y at y + x then exact one of x, y belongs toN (except one to N')
- · If r(x)=x, then x ∈N+ (positive helf)