Theorem Let S be an n-set.

Let V be the 2ⁿ-dun v.s. over C of

fix f: 2^S -> C

Define P: V->V liver trus. $G(F(T)) = \sum_{s \geq u \geq T} f(u) \quad \text{for all } T \leq S.$ fixed input of fin G(f)

Then S'exists and $g'(f(\tau)) = \sum_{s \ge u \ge T} f(u)$ f(u) f(u) f(u) f(u) f(u) f(u) f(u)

Application Think of S as a set of properties, some objects
wift a night not have.

for TES, f=(T)=#objects that have exceptly property of T.

Ex. S = [4] = [1,2,3,4] regard i as a paperty on S_4 $T = [1,3] \subseteq S$ The means i is a fixed pt.

relate (T) = # poin w/ fixed points except 183.

relate (T) = # poin w/ at least fixed pt 183.

 $f_{2}(T) = \sum_{Y \geq T} f_{2}(Y)$ thin $f_{2}(T) = \sum_{Y \geq T} f_{1}(Y)$ $f_{2}(Y)$ $f_{3}(Y)$ $f_{4}(Y) = \sum_{Y \geq T} f_{2}(Y)$ A decayants.