Obst The set of k elements sequences of elements of a countable set is countable. Obs 5. The set of finite Sequences of elements of contable Set is Countable

Obsb The set of phynomials in I ver Mrational coefficient Thin The set of algo minhers is countable.
Thin (Counton) The set of real minhers is not comptable.
Thin Let X be any set, Then X cannot be put in bijection with P(X). Pf: sufficient to prome there's ho surjection f: X > P(X), Suppose on Contradiction. I such for let T=SylyAfup?

YCX => Y \in P(X) => => \tag{1} \tag{1}