Thus there is no convertien of R. It consider an enumeration of numbers in [0,1) Position v : 0. 600 das dos dos 1:0. 210 211 213 7:0. 90 gr fr gr 3: 0, d3, d3, d31 d31 and not 0 or choose disit ci to be different from dici Then O, Co C, C, C, C, --- causet match any resition i sina ei t dii

Q. Can same technique construct O. C. C. C. el -- misirs from gay environtion of the rationals in [0,1)? A. yes, so that one of en -- is not rational. Thus | P(s) | > 15/ For any set 5. bits 50 bos 601 PIT SL S<sub>3</sub> S<sub>4</sub>

Instead describe pairing between S and P(5) with a Riction f: S-> P(5) & that each xe5 is paired with E(x) & P(5).
Ther construct mixing set $ \Delta = \{ x \in S                                $
There was then either $ x \in f(x) = \Delta $ and so $x \notin f(x)$ or $x \notin f(x) = \Delta$ or $x \notin f(x) = \Delta$ so $\Delta$ not example of $f_{\xi}$ so $f_{\xi}$ does not pair $f_{\xi}$ so $f_{\xi}$ does not pair $f_{\xi}$ so $f$

Addition principle. When mehing one of two possible choices, un noway and an-way choice, there are men possible outones.

Multiplocation principle when making both

M.n possible atomes.

Her many passeveres are 6-8 characters containing at least one signil and at least one upper case letter? - # 7 cher option + #8 char options # of 6-cher options / t (no overlap) Houltiplying by 6 overcounts because the set overlap. idea turn union into interaction of complement (Le Morgan's law) Count all Gener puds using us disition. 36.62 U= universe = 6-char pads, |U|=62 had ones use lower aso only = 266 9 and ores => 101-166= 626-266