A. pg 7 of Lecture notes: Example of an alg. not a T-alg. PS & L.N. 5,= (x, 6), f= (all challe and or sitz) Fr= # B(X) = {all subjet , & I } 5, 53 triving oralg. 52 is a oralg. Pf 2 X, 1 / AEF2 > A'EF2. (Symmetry) A1, A2, A3--- EFZ. NTS UA, EFZ cuse I all Ails me ctble = UA; ctble = ) UA; EF2. case 2 at least one Airis co coundade. An.
Then U Air Co casan + DA since MA~ 本1 > 1:AU~ 本1 S,= S2 L=7 /2/= 1. (= 1X=1, only 10-alg. => 1×1=2. Unose XEX. LXIEF, LXIEF, (Fz=F3 (=) X (+ble)

(= Easy =) a sum X not (+ble)

(wts Fz # F3- A AC) X Wand to find

AEX with A mudsle, A mutth summ AEF3; AFF2

女×103= {(XO): × c本}. なx10= を(X): Xe 本>. | XX(0) = (X) = |XX | (XX(0) U (XX(1) = X) = 100. A= f(Xx6). Foll and 1.3. mis an inf. o-aly - (ix. I oo # of sets in m). 19) m contains a segmen of nonempty Missound SAU. B, B2, By - Misjoined non endy. (b) carNow > c (= corr of red #1) (a) call A con finite 1 f int o.w. \{ E \in m : E \in \} \< 00 Note I is inf. by wimpton. Choose AEM, Ath, AtI. cruad observ is either Aor A is infinite (BEM =) B= (BNA) O(BNAC)) Let A, piece which is instruit, B, into or finite A, mf. Breek A, mba Az, Bz pratitu (nontrival) Such 81xt Az is inf. Keep sorry => B, Bz, Bz -- respirat + noneyof. (b) c=/[0,0]/=/ {0,0}/ full = infink binary soperar Find an injective map from 20,13 to M Xty =) FOA + Fly) = > (on) > 150/13N]. None 0110100100010000 -> B2UB3UB5UB5UB62 find sive Bis are Pisjoid 1237 5 628 2 1011

PS 14 Lecture notes.  ( $X, m, n$ ) is $\sigma$ -finit, then $ACC$ (= about)  is at most (the.  or $A$ ) $C$ $C$ $C$ pt. $\sigma$ -finity $X = \bigcup_{i=1}^{n} A_i$ st. $A$
The conshow to 14 All Coste, then reside
Pt Let Fx= {x∈Bn Q: Mixi≥ }?  Pt Let Fx= {x∈Bn Q: Mixi≥ }?
M(B) = M(Ex) = Fx = 7 Bn (c + the ]
(1) I four on [0]) which are discount at every X.
9. + (6 X & Q) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
1 In this said
(Pf simil on to asove. D)  More over, the relationship setween medium on E0,17  and the dist. Fins tell us this.
([OI]), m= BCOI), country more)
(A) = (A)

Folland 1.18. Variant for Lab. more. (a) HEER, (E need not be misel 4EDO, 3 open set of s.t EEO,  $m(\sigma) \leq m(E) + 2$ us. Pf. cuse () ma(E) = 00, then O= R and materials I, Iz --ES WEIUT, St ZINTI = W (E)+E Let B=UI; Gopen! E & O. and 5. Lot Ma (E) < 00 (E near not be missel Then I a countable intersection, fopen Sats,  $\frac{1}{100}$   $\frac{1}{100}$ Pf. by My Chowse Ox open ESOK, + m(OK) < with + YK consim in b; ES No. FIND YK, m(noi) < m(or) < m(t) + Yr Sing tru XX, Am (nti) = mx(E) b" Thm Eis m- mish iff I (Asle intersection of open sets of O) St ES NO. W ( NC ) = 0 not some as 10K-1=mit)

