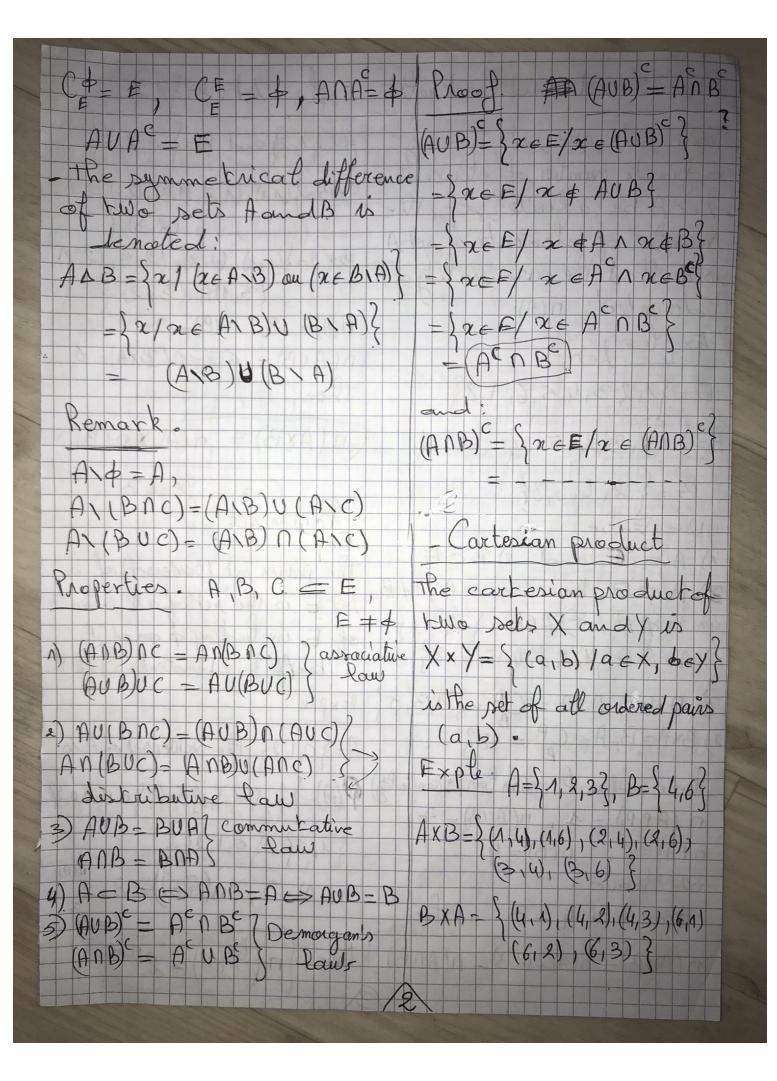
1) The union of A and by AUB-LUCE/ REAVEB 2) The intersetion of Aard Bb ANB-INCE/ REA/ NEB? x is an element of when the intersection of set Exple kwa sets is a, we say that . The set of even integers can be written 32n, next B=]3,6] are disjoint, because olk, = xeR, xol: the ANB = A set of positive real numbers . Difference and Complement A poet with mo element in it TA A, B CE, the per is called . The empty ser and is demared a (phi) AB= {neEIneAnn&Bq is called the difference The ser of all maker. The per: acFlacA 1 USU / UXO / = \$ By ! E A or CA on A or A= 31,34,B=M4 B is a surver of A, as S= 113,57 is not a rubret CH= 3x/xEBAXEA



sets and Cardinatity Timite sets are sets having a finite number of etemen AXB={(1,1), (1,2), (1,3), (2,1), (2,2) Let A be a finite set, the number of elements in set A BXA-3(11) (1,2), (2,1), (2,2) is called the condinatity of A (3,1), (3,2) denoted: n(A) n(A) = 2, n(B) = 3Exple Let n(AXB)=,6, n/BXA)=6 E= 11, 2, 3, 4, 5, 6, 7,86 n(AXB) = n(A)Xn(B)A= 11,2,3,4,5,64 B= 22, 4, 6,88 Power set and 2) BCE The power set (powerset) of a 3) A & B, because AAA, 1&B ser E is the ser of all sutrets B + A, 5) ANB = 2 2,416 } of Eincluding & and E itself & Lenoted: S(E) 6) AUB= 11,2,3,4,5,6,8} 7) A\B = A-B = CB = \113.5} 8) B\A = B-A = CA = \83 Exple. A=30,1,24, the powerset of A is The cardinal number : (Cardinality) (A)= (0), (1), (2), (0,1), (0,2) n (ANB) = 3, n(AUB) = 7 n(A) = 6, n(B) = 411,26,20,1,24 We have n(A) n(A)=3, n(9A)=8=27 = 6 + 4 - 3, The n(AUB) = n(A)+n(B)-n(ANB)

marring between two sets that associated etement (input) from to exactly one etement (out put) of domain we write, G: E >F x +> y= f(2) Codomain 1) They have the same Somain (E) some Codomain(F) commutative associated each point function comparition

& www.crhble 243 2 39 3 1/ 3 Loca La mentille 1 0 79 purice 3 Junction 6-42 40 3 6 Est. Unvers 8 8 U 30 example M nre Mo 8 Ma 000 (E) mverse bilda ave 0 4 5 9 3 15 30 Dave 0 96 A Day 90 U JM BO 7 X DA الو Then 4 B e Me N/ 20 3 N outo Judio - miles Unjecture P (24) + L(x) ACOM one-ta-one XX => & by ective exact the state of the 5 2 TO AC 11 32 8) Je 40 d 2 rolk 5 22 22 bra 000 13)=- (K 3nex 35 (c) 0 Mriet 34 W BC survective छ 86 X # Durjecture 3 JAMA! bijective \triangleright 8 04 Se de7 -eor a DE CO. michine COM ak (2) ec ec U N W 1 1'xmc 7 32 0 \$0 Expe 9 5 (20) To 9 OX 90 3 S

OF LX. 20 Z 300 1 - f - f 30 111 000 (W) 30 (R) P 10 300 (20) WIT OF I (10) (10) 20 90 BUCF Z 300 got surjed Job = (20) 2 - (20) Choose S(fla) (A) P S 900 Merzy ze 20 V3 eG (w) (Po 3) VacE 10 9000 400 Door 少公介 2) 34 them -1 = 3 - 3 / 0 cx < 2 / (We 8 and BCF [0,2], B=[-1,1] F1,13 0 < 2 < 8 = [0,8] Ш 5 D D E <2<1/>4 1 f(m) = 13 f $\alpha/2(m) \in B$ 1523511 sels 00 - 7 (A) = 2 y (m) / 26 A} 4 A B god unjective 8 at at 0 94 Ac position 3 8 est. ap 7 (2) W 3 6 (20)

S Q1-1-10 \$ 306 0 0 4 100 2 7 (H) Y (A) & 0 1,03 J(m) = me hour P(0,1) Extent T X VacE = (9) LU(1) }) CB 200 extruction D(Quub) 10 40B=201 AN BONE g(411B) (2) P Exple (m) f (=) -(g)} - (H) -Det 1 X A: M= 3(2) BE) - f (A2) 18, U. f-1 (182) 1 J. H. H. U) O & (Az) BOF A(42) BB U7(1/2) 00 30 396 = 8(A) 40 6 4=3(a) 20 AUA) 0 g 00 00 (A) 0 8 4= 7 CM = 3 (A) 8 Town or 3mc AV2 Rapposition (A, nAz) (HUH) We 3 x chu Dome The state of the s W. R R 10 a 0 08 (0)

