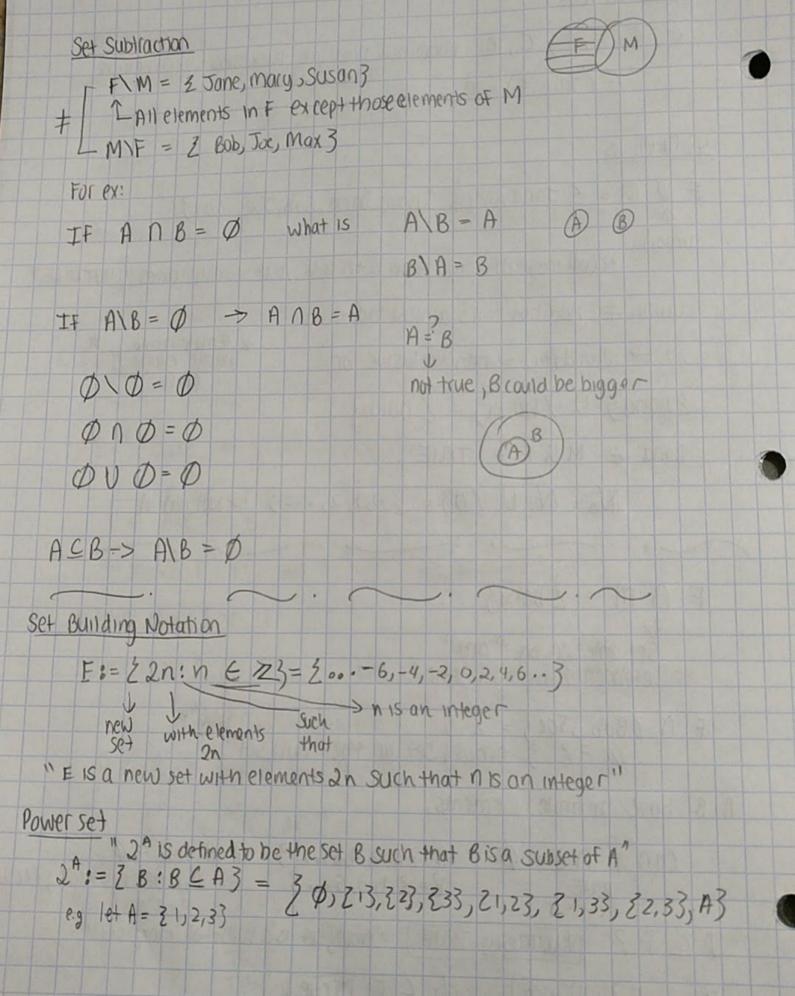


So far we have E, E, =, +, C, C these are predicate functions which return True of Fase E (Jane, F) = TRUE Set Functions F U M = & Jane, mory, Susan, Dana, Bob, Joe, Max3 union . combines all elements in both sets , but no duplicates "UNIQUE" union + Addition) it's almost addition !! * Female name or * "and lor" > non exclusive or Both 2 Dana 3 U 2 Dana 3 = 2 Dana 3 Dona & MUF > TRUE No = N U 203 = 30,1,2, ... 3 = Natural # F M = Z Dana3 Set Intersection "and" elements in both sets F N 2806 Joe3 = 23 Ø = 2 3 empty set or the "null set" A, B have infinite elements CON A NB = \emptyset A= 10,2,4,6...3 IF A NB = \emptyset TRUE B= 21,3,5...3 => A,8 ore mutually exclusive or"disjoin" DCF? Vacually TRUE "empty set is a subset of every set" Ø E F? [False] Ø E F [True]



SIZE OF SET (cardinaling) 1A1 = 3 IA1 = H of elements of set absolute value sign 124 = 8 FUM = | F| + | M)
7 + 4 + 4