14 set is a	collection	of clerrer	res -		
eg.		Obj, Se	ets,		
5 2 \$ 1, 2	., { 3,43 ?				
	, 265 3/		£3,43	E S.	
Power Set	:				
Let A !	be a finite!	set, then	the power	set of A	is the
collection	n: P(A) = 5	S: SEA3			
	possible sub			e	
eg. Take	A= {1,2,3	3.			
P(A)	= { { 13, { 24, 5	522 51 22	51 23	52 23 5	1 2 3 3 d
	number of			(, , , , ,	(,2,3 (),7
	1/2 2 22				
Partition e					
	se a non-e	empty set	then the	partition	TL 07 A
	Mection of				
	My disjoint				
	= \{ A,				
Such +	hat the Jolle	wing conde	tion is s	iatisi7ied	
	2 An #	0		A. A.	A
2. A., A.	An CA		= >	Au My A	
3. A:n	A; = \$ wh	ere itj.		An As	
4. A.U/	12 An =	A .			

Sequences and Sums. A sequences is a function 7:5 -> 2 where 562 1:81,2----3 -> 2. 7(1),7(2),7(3) --- => 7,,72,72--e.f. f: Z -> R. & a function define as 7: x2. 1. Constant Sequences. < define buy worstant number. e.f. 1,1,1,1,1 15th 2. Creometric Sequences & fle ratio of any power consecutive terms ef. a, ar, ar2, ar3 --- is a constant. \$ \$ 3. Arithmetic Sequences - difference of a pair of nonseculive tem e.f. a, atd at2d -.. Sum of sequences: Induction. Let Pin, is a statement parameterized by nEZ+. 11) Pull is true (2) P(k) => P(k+1) for any positive integer then Pens is true for all positive integer Pui) => Pui) => Pus) => --...