AAT 11 22 2 1 1 12 1	
MTH230 - Linear Algebra	n(A) = 5
Set Theory	where n(A) => Cardinality
A set is a well defined	of A.
Collection of objects. We	Intersection: Given a
have finite sets and infinite	Set A = {a, 63
Sets.	$B = \{c, a\}$
finite => An end exist.	the intersection of A and B
infinite => An end does not exist.	is the set of elements which
An empty set is a set that	exist in both sets. It is
has no element, and is obneted	denoted by the symbol 1.
as phi (0)	A MB = {a}
E denotes member	This is because las is the
# denote not a member	only element which exist in
or about Contain.	both A and B.
$5 \notin A \Rightarrow 5$ is not a member	Union: The union of a set
of A.	$A = \{a, b, c\}$ and
Equal Sets: Sets that Contain	B = Ed.e, f3
same elements.	is the det which contains
Note: Order might be different.	all the values in both A and
Cardinality: This is the	B. It is denoted by the
number of elements in a set.	Symbol U
If A = {1, 2, 3, 4, 5}	AUB = {a, b, c, d, e, f}

13th Mas 2024 169 48 Power Jet 4 podos. P(A) = 23 Set A = {1,23 P(A) = {603, 213, 223, 11,23} 24 -> men or poctors or Both Union Formula (authoring: 29 Indian 100 men n(AUB) = n(A)+ n(B)-n(ADB) 28 Indian men A = 51,2,33 ? 18 nM)=23 B= {2, 4,5} n n(W)= 29 n(MUD) = 24Ht a certain conference of 100 people, there were 29 Indian Women and 23 Indian men. Out of these indian people. 4 were Poctors, and 24 are either men or Doctors. There were no foreign Doctors find the number of women Doctors who attended the 21 = 4 +23 -x Conference. T-46