Math 241 - A-Kapeliner	Lecture 1 08/25/16
natore both in A and B.	Intersection a set that contains decreened to
F: { Jane, Mary, Swan, Dana 3	F n M = 1 Dana3
Here Fis the jet name. ""."	means "assignment" and for "definition."
	ding of enumeration which is orderlys.
Let's say M: = { Bob, Foe, Max, Da	na }
1001000	A and B are mutually exclusive
	note the intersection (common el.) of
Lor more sets,	are welled work (3 Sofress months A 71)
IN = {1,2,3} implied.	· Diffrance / Subharton
Z = {1,0,1.3	A-B W B-AA
	A-B W/13 (D) B-A
E - element inclusion	8 8
Jane 6 F	8 A B - B A A
Jane Hary Dana Surem 1 = F	True A / Jast Jast Jas (A) 82 A
17 Hours 3 F. Tulen	True. A Smit of B 02 A
I dane, Mary 0 & F Farse.	Pours Set to Send to
Clin	Pour Set to muchan pu
00.00	
	lebt hand side is contained by the right hand side
Proper Subset - A proper subset of A is a :	subset of A that is not eigen to A.
{Jane, Mary 3 CF	The state of the s
{Jane 3 & F True.	141 = 3
[Jane] & F False.	0 = 1801
(gane) or parse.	818 -002
· Haran - allester 1 all distant almost	g in the sets = 12 bl 2 be sind and not
· Union - collection of all district elements F v M = { E Jane, Hary, Sisan, Danis,	7.77
= { Jane, Mary, Susan, Dana,	Bob For Max?
	The food that the same of the
Dana E F v M Treu.	7 + 4 + 4
No = 1 v 203 ordding "0"	in ID - O II I all manages
	E al - alo s as the second of
tain all the elements) entitles one makes	
2 /	to another in a given situation.
	What's the probability a vantam nament
(DSHILLE)	MOT = 10
	Lecture 1

Lecture 1 08/25/26
Intersution - a set that contains dements that are both in A and B.
$F \cap M = \{Dana \}$
F n [Bob, Max 3 = [3] empty set
Ø & F True.
The state of the s
A and B are mutually exclusive
If $A \cap B = \emptyset$
(IF A then cantbe B)
· Difference / Subtraction
A B A B
A-B
A B
AAB=ØÔO
B
A & B (A) B + then A B = \$\phi\$
· Pover Set
A = {1,2,33 2 A := {B: B= A3 = { {1,2,33, {13, {23, {53, {1,23, {2,133, {2,33}, {2,133
A = {1,2,33 2 := 213: B=A3 = [[11,213], 213/25/15
C A Language Market.
· Set Carelinality - wymber of elements in heset.
A = 3
101=0
For the link set S, $ 2^{5} = 2^{15}$
TOP THE PINESO S, 12 1-2
FUM ? F + M Thurshie, it is False
IFUMI = IT + IM Manager, This raise
11 11 11 7 \(\frac{4}{4} \tau \tau \tau \tau \tau \tau \tau \tau
. I - universe set - 15 a class that contains all the elements / enthis one wishes
· IL - Universe set - 13 a suns than continue state of the
to consider in a given situation.
What's the probability a random name in Fernale? P(A) = IAI N = FUM (assume)
MØ MICHERIUS
Lecture 1b