Marh 29/ Lecture 1 8/22/15 - Syllabus BISIR Seo Theory & Vocabulary Mosh is brills or the fordown of sets certainly prob & 57.45. Begin is 1870's formlade is 20th cong Set: A collection of listness discours withour on hotelin few ser hore, one, many supe/no rything you diplaner can think of discoss history order The Man Dana? Super Supe M= & Bel, Jae, Mas, Dana 3 Yor an illusome puphendly with a Venu Diegum') - Em mon mon 3 Mare Am Bob Jop Mar For when it is les ejulis: ell clerros Smal (h#F)

De gomes Set Inlesin dojen Jare & F & Seo Extern Jan & M is. The is = +0 ored de doners Sets can he my # of closens N:= \(\frac{1}{2}, \frac{3}{3}, \dots - \frac{3}{3}, \dots \) \(\lambda \) := \(\xi \lambda \), \(\frac{1}{2} \dots \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \) \(\xi \rangle \) = \(\xi \lambda \) \(\xi \rangle \xi \rangle \) \(\xi \rangle \) = \(\xi \lambda \xi \rangle \) \(\xi \rangle \(\xi \rangle \xi Z:= {..., -2,-1,0,1,2,...} Comp back down with " or e" ETme, Any 3 CF A Then "proper school" is. A + B. There is no less One demo is B not is A. A S b rem 'subser' is. A=b or A=b leaves of grown of being equal. ETM3 EF? Jan CF? PARSE! But is like a coupliler!

Cortoile Sets use comer grown ETM 3 () EMmy, Susm, Dam 3 = F Unin is radition without double - cours The 3 U (The) = E Tou 3 Why? In U{Im} = ? Very strage guester!) a hon exclusive or 4 9==> 11 9< 8 FUM took ride, fiende or book Set Diversection finds commen deaners of a sea FIM =? Elm3 + Dana

Transent is de And ' operator

Mole & Fearle 9+ the 5me

the!



Cripty de er hall sex!

.. In less this near? She we cleins of AND = P e.g. Odds 1 Every = \$ both spring!! $\phi \subset F$?

Me can substrut sels treo

Flm P

= { Jax, May, Susur 3

11 = { Bib, Tae, rax }

if Alb= A who is ANB=?

J(x)=x? S(3) = 92

he on also take to power all sto sible fee vinite

les A= {1,3,33

EB: B = A3 Ser briller moont

(A)=2 = { d, &13, &23, &33, &(21, \$2,53, &1,53, 1/45)

Smy SeA > SEA

We can also ash for the sit of ser, Called "condinating" (A) = 3, [F/= 7, [M]=5 (mUF) = ? 7 (FOB) =) (MUF) + (M)+(F) (24) = 8 2.2.2.2 = 24 = 16 Joe my Som Im A special sex is called S2 (Onega) the unlesse, sight space, space of discours, Fourier sope here libriter to. For leffore is! Scape. You borr see anyting Lac

les SZ= FUM

NOR FEST, MEST all sets are situated of de

I magin down of none from $\Omega = FVm$ Us is the probably this me is fame? $|F| = \frac{4}{|\Omega|} = \frac{4}{2}$ None to cone

· ·

9

0.