The Complement of a Set

this idea, as started, falls apara!

ex 1) \[\overline{N} -5 \in \overline{N} \]

my dog $\in IN$ oh no!

where $\in IN$ is the standard of the stan

there are 100 many things & M!

to properly define and use "set complement"

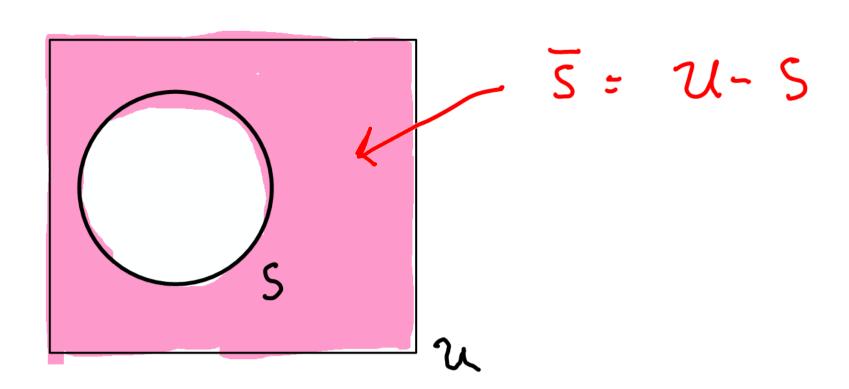
we first need to specify a big set containing

our starzing set S

"universe of discount"

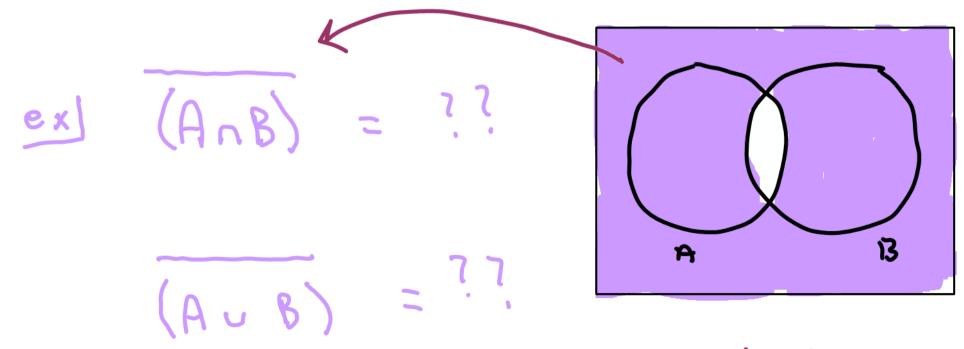
$$= (-\infty, 1) \cup (1, 2) \cup (2, 3) \cup ...$$

$$= (-\omega, 1) \cup \left(\bigcup_{i=1}^{\infty} (i, i+1)\right)$$



note: don't always specify U! many times it is understood from context.

note U, M and complement intract wl one another in inveresting t useful ways!



drow + colon

AUB same?

note M, U and complement can also

be combined with

- · Contrision product
 - · power sets