

$$A \Rightarrow B$$

$$A \Rightarrow B'$$

$$A \& B'$$

If the ^A weather is good tomorrow,

The weather is good +.

then I will go to walk
B

and I will not go to walk.

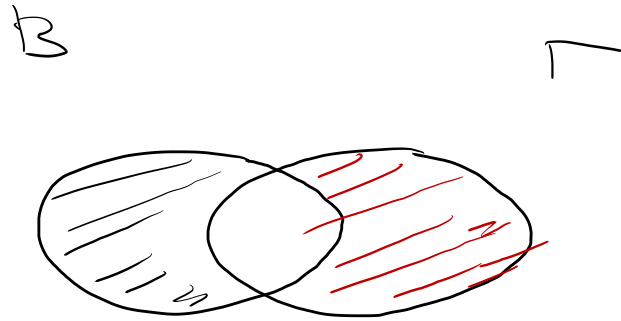
$$B' \Leftarrow A$$

~~I~~

B'	A	B	$A \Rightarrow B$	$A \Rightarrow B'$	$A \& B'$
0	1	1	1	0	0
1	1	0	0	1	1
0	0	1	1	1	0
1	0	0	1	1	0

I like tennis but not basket.
AND

B & T'



~~B~~ T

not basket alone

T & B'

\downarrow B	\downarrow T	\downarrow B'	\downarrow T'	B & T'	B' & T
1	1	0	0	0	1
1	0	0	1	1	0
0	1	1	0	0	1
0	0	1	1	0	1

I don't like basketball
or I like tennis.

Some continuous functions are polynomials

$\rightarrow \exists$ cont. function : this function is polynomial.

~~\forall cont. function. this is polynomial.~~

I can find cont. funct. ^{which} is ^{an} polynomial.

Neg: I can not find

Neg: \forall c. functions not true they are polynomial.

Some \exists exists

~~\exists~~ \exists exists polynomial. 1, 2, 90%

Some are polynomials. 

Friend: Some are not polynomials

Some \rightarrow \exists exists

neg \hookrightarrow Do not exist

For all stat. is NOT TRUE.

Some at least 1

neg

complete nothing

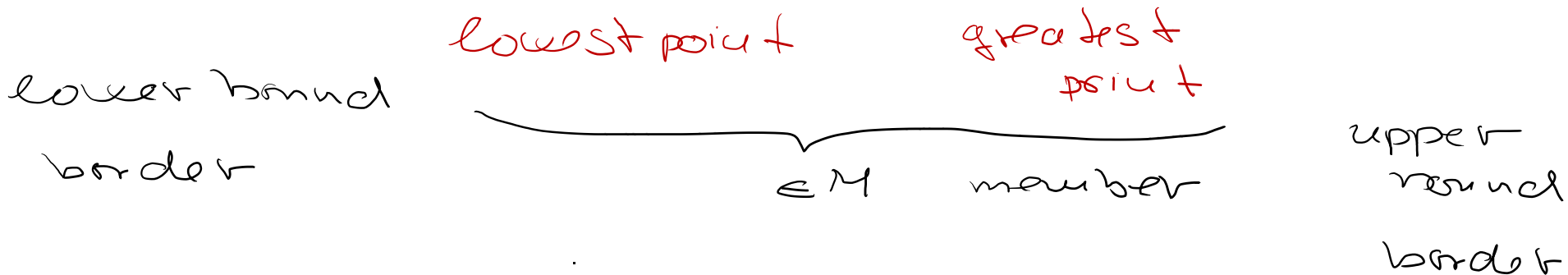
set $M \subset \mathbb{Q}$

infimum

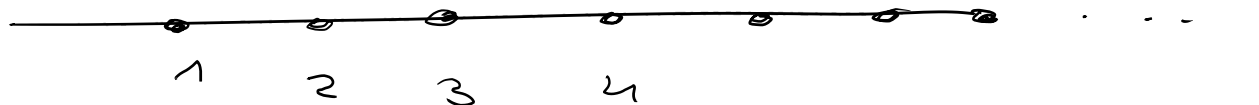
minimum

maximum

supremum



(1a) \mathbb{N}



min = 1

max

NO

inf = 1

sup

∞

Fact

$$\underline{\text{inf}} \leq \underline{\text{min}} \leq \underline{\text{max}} \leq \underline{\text{sup}}$$

- \exists , can be $-\infty, +\infty$

- sometimes ~~not~~ exist, can't be $\pm\infty$

is member