LECTURE 3 (MAY 17)

Fields, Induction, Binomial Theorem:
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1 Remarks on supremums and bounded above

Supremums and Upper bounds are not the same and it's been quite confusing so I'll make a note here:
Let P be a partially ordered set and $A \subset P$

1.1 Upper Bound

$x \in P$ is an upper bound of A if $a \leq x$ for all $a \in A$.

1.2 Supremum

We say $s \in P$ is the supremum of A if it satisfies two things:

1. s is an upper bound of A
2. s is the smallest upper bound of A