Last class:

Introduced IR ns an ordered field. (D) Field (2) Order

Q: also an ordered field

3 Axion of Completeness



E.g. $A = \{0, 1\}$ 1 is a supremum for A D 1?0? 1 is an upper bound. 17, 1? V

Let y be some upper bound for A. Since it is an upper bound, in particular, YZI.

Theorem: Suprema are unique. Pf: Let AGIR and suppose x, y are suprema for A. In porticular × is an upper bound. Since y is a supremum for A, Y ≤ X. The some reasoning shows x 4 y. Hence X=Y.

