FUNDAMENTALS OF MATHEMATICS
SPRING 2009

HOMEWORK 07
Solution Published February 3, 2009
5 points

Directions. Please submit your answer to the following problem in a \LaTeX-prepare document. Class participants are encouraged to prepare solutions in a collaborative mode but to prepare their to-be-submitted write-ups individually. The consequences of sharing files, electronic or otherwise, are discussed in the course syllabus.\footnote{If the wording of this problem was discussed in detail in the classroom, the course instructor expects to see similar phrases and sentences in reading the submissions.}

Please include the problem number along with a statement of the problem in your submission. Please also include your e-mail address.

Problem. Let $\mathcal{F}$ denote a field ordered by the subset $\mathcal{F}^+$ and let $x, y \in \mathcal{F}$. Prove that if $x < y$ then $x \neq y$. 