Econ 703 Homework 2

Fall 2008, University of Wisconsin-Madison

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Due on Sep. 18, Thu. (in the class)

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1. Define two points (x_0, y_0) and (x_1, y_1) of the plane to be equivalent if $y_0 - {x_0}^2 = y_1 - {x_1}^2$. Verify that this is an equivalence relation, and describe the equivalence classes.

2. Prove by induction that given $n \in Z_+$, every nonempty subset of $\{1, \ldots, n\}$ has a largest element.

3. Sundaram, #9, p. 67.

4. Sundaram, #13, p. 68.

5. Sundaram, #15, p. 68.