Homework 8 – due 04/02/08

Math 601

33. Let K be an infinite field. Show that $K^\times$ is not cyclic.

34. Show that $\mathrm{Aut}(\mathbb{R}) = 1$. (Hint: see Dummit-Foote, 14.1, #7.)

35. Dummit-Foote, 13.6, #13.

36. Dummit-Foote, 13.6, #14-17. (Yes, it's all one problem.)

37. Dummit-Foote, 14.1, #8.