MAT 365 Fall 2002 Extra credit Name:

Instructor: Nándor Sieben
e-mail: nandor.sieben@nau.edu
http://jan.ucc.nau.edu/∼ns46/365/365.html
Office: AMB 175, Phone: 523-6874
Hours: MWF 11:20 – 12:20 MW 1:40 – 2:40

Rats in the kitchen

There are n sleeping rats in the kitchen. We randomly place n cats to catch the rats (one cat for each rat). We notice that no three animals are collinear. Show that every cat can choose a different rat to catch such that the straight paths from the cats to the rats do not intersect.