MATH 130A. HOMEWORK 1. DUE MONDAY, JANUARY 12, IN SECTION

Reading: Sections 1.12 - 1.18.

H1. Show that there does not exist a rational number p such that $p^2 = 3$. (Hint: first show by induction that if n is a positive integer then there exist integers q and r with $r \in \{0, 1, 2\}$ such that $n = 3q + r$.)

Chapter 1. # 1, 2, 3, 5, 6, 7, 8, 13.