

Homework 1 (Due Tues, Jan 28)

Math 2710 – Spring 2014

Professor Hohn

Using the proof techniques we have learned in class, prove or give a counterexample to each statement.

1. Let a and b be real numbers. Prove that if $ab = 0$, then $a = 0$ or $b = 0$.
2. $\forall x \in \mathbb{R}, (x^2 + 5x + 7 > 0)$. (Note that \forall means “for all.” The statement reads, “For all x in the real numbers, $(x^2 + 5x + 7 > 0)$.”)
3. If m and n are integers with mn odd, then m and n are odd.