

Math 108, Section 1

Homework 3: Section 1.3 # 3, 4, 5a-j, 7, plus this handout

1. Write a denial of each proposition. Simplify your denial using Theorems 1.2 and 1.3. For example, a denial of the proposition “all birds fly” is “it is not the case that all birds fly,” but we can write this more simply as “some birds don’t fly” using Theorem 1.3.
 - a. All university students take calculus.
 - b. Some people are clumsy.
 - c. All engineers are social inept or some math majors are cool.
 - d. If everyone in this class earns an A on the first exam, I will do a backflip.
 - e. If chickens have lips, then oranges grow in Antarctica and there is a such thing as a free lunch.