

Assignment 2, Part 1: The Logic of Quantified Statements

Noah Hinojos

January 18, 2024

Exercise Set 3.1

29 - b

There exists a geometric figure that is a rectangle and is a square. **True**, all squares are rectangles.

29 - c

There exists a geometric figure that is a rectangle and is a not square. **True**, a *long* rectangle is not a square since not all side lengths are equal.

30 - a

There exists an integer such that it is prime and it is not odd. **True**, the number 2 is prime and not odd.

30 - c

There exists an integer such that it is odd and is is a perfect square. **True**, the number 25 is odd and is a perfect square.

Exercise Set 3.2

8

14

14

31

44

48

49

Canvas Problem