

Math 270 - Basic Discrete Mathematics
Practice Quiz on Section 3.1

Directions: Answer the problems given below.

1. Rewrite the following statements into the form \forall _____, _____.

a. Every integer is even or odd.

b. All whales live in the ocean.

c. The number -1 is not the square of any real number.

2. Find a counterexample to show the following statement is false:

$$\forall \text{ real numbers } x \text{ and } y, \sqrt{x+y} \neq \sqrt{x} + \sqrt{y}.$$