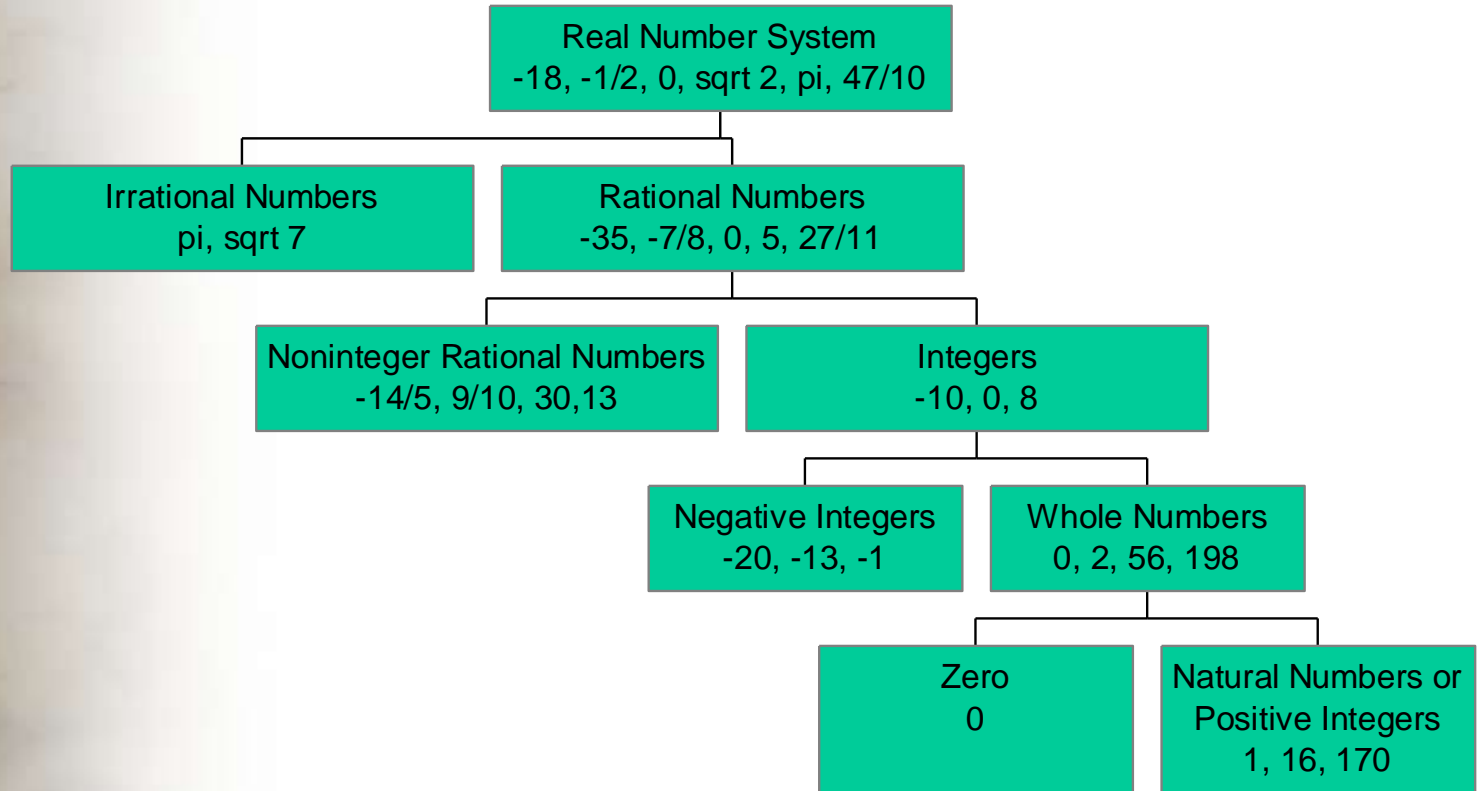


Real Number System



The Set of Numbers

- Natural Numbers
 - The set of natural numbers contains
 $\{1, 2, 3, \dots\}$
- Whole Numbers
 - The set of whole numbers contains
 $\{0, 1, 2, \dots\}$
- Integers
 - The set of integers contains
 $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

Set of Real Numbers, cont'd

- **Rational Numbers** –the set of all numbers that can be expressed as a quotient of integers
- **Irrational Numbers** – the set of all numbers that correspond to points on the number line but that are not rational numbers. That is, an irrational number is a number that cannot be expressed as a quotient of integers.
- **Real Numbers** – is the set of all numbers each of which correspond to a point on the number line.