Module 7 – Irrational Numbers

Cube root - The *cube root* of a number b is equal to a if $a^3 = b$. It is denoted by $\sqrt[3]{b}$.

Finite decimals – decimals that terminate.

Infinite decimals - *Infinite decimals* are decimals that do not repeat nor terminate.

Irrational number - *Irrational numbers* are numbers that are not rational.

Perfect square - A *perfect square* is the square of an integer.

Radical - An expression that has a square root, cube root, etc.

Rational number - any number that can be expressed as the quotient or fraction *p*/*q* of two integers, *p* and *q*, with the denominator *q* not equal to zero.

Repeating decimal - The decimal form of a rational number, for example, $\frac{1}{3} = 0.\overline{3}$.

Square root - The *square root* of a number b is equal to a if $a^2 = b$. It is denoted by $\sqrt{b}$.

Terminating decimal - A decimal is called terminating if its repeating digit is 0.