Natural Number - $\mathbb{N}$ {1, 2, 3 ,4 ,5 , …}

Whole Numbers   {0, 1, 2, 3, 4, 5, …}

Integers Numbers - $\mathbb{Z}$ {…,-3 ,-2 ,-1 ,0 ,1 ,2 ,3 ,

Rational Numbers - $\mathbb{Q}$ $\{\frac{p}{q}, \quad p$ and q are in $\mathbb{Z}$ }

Irrational Numbers - $\{\pi, \sqrt{2}\}$

Real Numbers - $\mathbb{R}$

Complex Numbers - $\mathbb{C}$ $\{a+ib \quad a$ and b are in $\mathbb{R}\}$

Symbols

$=$:	Equal	$\varnothing$:	Null symbol
$\neq$:	Not equal	$\lvert.\rvert$:	Absolute value
$\approx$:	Approximate	$\exists$:	Existential quantifier (For some ... There exists
$\sim$:	Similarity	$\nexists$:	Doesn't exist
$\in$:	is an element of	$\forall$:	Universal quantifier (For all ..., For every...)
$\notin$:	is not an element of	$\cap$:	Intersection $= \{ x \mid x \in A$ and $x \in B\}$
$\subseteq$:	is a subset	$\cup$:	Union $= \{x \mid x \in A$ or $x \in B\}$
$\subset$:	Proper subset symbol	( ):	Open Interval
$<$:	is less than	[ ]:	Close Interval
$>$:	is greater than	$\perp$:	Perpendicular
$\leq$:	is less than or equal	//:	Parallel
$\geq$:	is greater than or equal		