## Calculus - 1

## Properties of Real Numbers and Bounds : lecture 1

Open Interval :> The set of all real No. b[w a and b is said to be form an open interval from a to be denoted by (a, b) (0, b) = {x: a < x < b} and x ∈ R}





Infinite Intervals: The set of all sceen No.  

$$x$$
 set  $x = 7a$  forms an  
infinite set and is denoted by  $(2, \infty)$   
 $(a, \infty) = [x: x = 7a \text{ and } x \in R_{3}^{2}]$   
 $(-\infty, a) = [x: x \leq a \text{ and } x \in R_{3}^{2}]$   
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