Limit of a Function: The notation means that as x approaches the value *a,* then f(x) approaches the number L.

Epsilon-Delta Notation: A notation for limits where one specifies for the x-range of the limit (notated by δ), that the y-values will be within a range (notated by ε), this is such that that the following inequalities may be defined: 0 < |x-a| < δ, |f(x) – L| < ε.

Left-Hand and Right-Hand Limits: The notation means that as you approach x from the left, the value of f(x) approaches L and is referred to as a left-handed limit. Meanwhile, means that you approach x from the right, the value of f(x) approaches L and is referred to as a right-handed limit. These limits are important when considering things such as absolute value functions, where the value may differ depending on which direction one comes from. Notably, if both the left-handed and right-handed limits of *a* are equal, then the limit of f(x) as it approaches *a* is equal to L.