Formal Limit Definitions

General Form of Definitions:

Given any ______, there is a corresponding ______, there is a corresponding ______, such that if x is ______, such that if x is ______, where it meets that requirement) ______, then f(x) _______.



Example: $\lim_{x \to a^-} f(x) = L$

means that for every $\varepsilon > 0$ there must be a corresponding δ such that if $a - \delta < x < a$ then $|f(x) - L| < \varepsilon$.