Def Limit of $f(x,y)$

limit of $f(x,y)$ as (x,y) approaches (a,b) is L $\iff$ $\forall \epsilon > 0$, $\exists \delta > 0$ s.t.

(x,y) with $\sqrt{(x-a)^2+(y-a)^2} < \delta$

$\Rightarrow |f(x,y) - L| < \epsilon$

Continuity

f is continuous at (a,b) $\iff$ $\lim_{(x,y)\to(a,b)} f(x,y) = f(a,b)$