## Example-Negation

Problem. Negate the following:
For all $\epsilon>0$ there exists $\delta>0$ such that whenever $x \in D$ and $0<|x-a|<\delta$, then $|f(x)-A|<\epsilon$.

Solution: There exists $\epsilon>0$ such that for all $\delta>0$ there exists $x \in D$ with $0<|x-a|<\delta$ and $|f(x)-A| \geq \epsilon$.

