## Extra Credit Assignment 10

Due Friday, November 12, 11:59 PM

Using the definition of limits, prove the addition law. That is, assume that

$$
\lim _{x \rightarrow a} f(x)=L \quad \text { and } \quad \lim _{x \rightarrow a} g(x)=M
$$

Prove to me that

$$
\lim _{x \rightarrow a}(f(x)+g(x))=L+M
$$

