Remember that your work is graded on the quality of your writing and explanation as well as the validity of the mathematics.
(1) (7 Points) Use a truth table to verify the following tautology: $[p \vee(q \vee r)] \Leftrightarrow[(p \vee q) \vee r]$. Make sure to explain why your table proves the desired result.
(2) (7 Points) Rewrite the following statement using logical symbols such as (but not limited to) $\forall, \exists$, $\ni$ and $\Rightarrow$ as appropriate. Then write the negation of the statement, to explain when a function is not strictly increasing, using the same symbolism.

A function $f$ is strictly increasing iff for every $x$ and for every $y$, if $x<y$, then $f(x)<f(y)$.

