DeMorgan's Laws

~ $p \lor ~ q$ and ~ $(p \land q)$ are logically equivalent.

~
$$p \wedge \sim q_{\text{and}} \sim (p \vee q)_{\text{are logically equivalent.}}$$

While all this might look impressive, all we have done is combined statements by using definitions we learned for "or" and "and" in the previous sections and assigning truth values.