

Example 9: An advertisement makes the following claim:
If you use Hair Grow and apply it daily, then you will not go bald.

- a. Construct a truth table for the claim.
- b. Suppose you use Hair Grow, forget to apply it every day, and you go bald. Under these conditions, is the claim in the advertisement false?

Example 10: Construct a truth table for $(p \vee q) \leftrightarrow (\sim p \rightarrow q)$ to determine whether the statement is a tautology.