Activity!

The Replacement Method



Steps:

- Copy the formula, substituting the letter constants with the relevant truth-values.
- 2. Calculate the operators with the smallest scopes.
- 3. Calculate the main operator.

Use the replacement method to calculate the truth-values of the following: (Key: R and L are true; M and O are false.) a. $\sim [(O \lor M) \supset (R \equiv M)]$ b. $[(R \& L) \lor (R \& M)] \& \sim (L \& M)$ c. $(([R \equiv L] \& [M \equiv O]) \lor [M \supset R]) \supset O$