

Getting familiar with . . . truth tables for operators

For each of the following, construct a complete truth table. Start with the claims enclosed in the most number of parentheses, and move to the next most enclosed until you get to the main operator.

1. $(A \& \sim B)$
2. $\sim(C \vee D)$
3. $\sim(A \supset \sim B)$
4. $(P \equiv (Q \supset R))$
5. $\sim(\sim W \& \sim P)$
6. $(\sim Q \supset R)$
7. $\sim(P \& Q)$
8. $(W \vee (A \vee B))$
9. $(A \vee (B \supset C))$
10. $\sim(T \equiv (U \& \sim V))$