

Complete Truth-table Exercise

Construct truth-tables for the following wffs. This is not an online exercise, but one that you should do with good-old-fashioned paper and pencil. Answers are provided to some via a link. When you've covered the material on [logical status](#), go back and determine the logical status of these wffs from the truth-tables.

1. $(A \supset \sim B) \vee (\sim B \ \& \ A)$
2. $(A \supset B) \supset (B \supset A)$
3. $(C \ \& \ \sim D) \equiv \sim(\sim C \vee D)$
4. $\sim\sim(A \supset \sim B) \vee (\sim C \ \& \ \sim A)$
5. $(A \vee \sim A) \vee (A \supset B)$
6. $(\sim A \supset \sim B) \equiv (\sim B \supset \sim A)$
7. $(A \supset \sim B) \equiv (\sim B \vee \sim A)$
8. $(C \vee (D \ \& \ E)) \supset ((C \vee D) \ \& \ (C \vee E))$
9. $\sim(A \supset (B \supset A))$
10. $A \ \& \ (B \vee \sim(C \equiv \sim A))$