

Q #1 Construct a truth table for each of these compound propositions

- (a)  $p \wedge \sim q$
- (b)  $p \vee \sim p$
- (c)  $(p \vee \sim q) \rightarrow q$
- (d)  $(p \vee q) \rightarrow (p \wedge q)$
- (e)  $(p \rightarrow q) \leftrightarrow (\sim q \rightarrow \sim p)$
- (f)  $(p \rightarrow q) \rightarrow (q \rightarrow p)$

Q #2 Construct a truth table for each of these compound propositions

- (a)  $p \rightarrow \sim p$
- (b)  $p \leftrightarrow \sim p$
- (c)  $(p \wedge q) \rightarrow (p \vee q)$
- (d)  $(q \rightarrow \sim p) \leftrightarrow (p \leftrightarrow q)$