Discrete Structures. CSCI-150.

$$(A \land B) \equiv (B \land A) \qquad \text{commutativity of } \land \\ (A \lor B) \equiv (B \lor A) \qquad \text{commutativity of } \lor \\ ((A \land B) \land C) \equiv (A \land (B \land C)) \qquad \text{associativity of } \land \\ ((A \lor B) \lor C) \equiv (A \lor (B \lor C)) \qquad \text{associativity of } \lor \\ \neg (\neg A) \equiv A \qquad \text{double-negation elimination} \\ (A \rightarrow B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ (A \rightarrow B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ (A \rightarrow B) \equiv (-A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{implication elimination} \\ \neg (A \land B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg (A \lor B) \equiv (\neg A \lor B) \qquad \text{over } \lor \\ \neg$$

"Proof by contradiction"