17-355/17-655/17-819: Program Analysis
Lecture 16, Satisfiability Modulo Theories
In-Class Exercises
March 19, 2018 **Andrew ID: _____**

1. Apply DPLL to the following formula, describing each step (unit propagation, pure literal elimination, choosing a literal, or backtracking) and showing now it affects the formula until you prove that the formula is satisfiable or not:

   $(a \vee b) \wedge (a \vee c) \wedge (\neg a \vee c) \wedge (a \vee \neg c) \wedge (\neg a \vee \neg c) \wedge (\neg d)$