Quiz 2

1. Consider the following language, TFSAT:

   Instance: A Boolean formula ϕ. (Note that ϕ need not be in 3CNF.)

   Question: Does ϕ have some satisfying assignment, f, and also some unsatisfying assignment, g?

   (In other words, TFSAT is the language of formulas that are satisfiable but not tautological. A formula is tautological if it is true under every truth assignment.)

   Prove that TFSAT is NP-Complete.