CS 205 Homework 1

Keith Lehman, kpl56@scarletmail.rutgers.edu

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- 1. Express propositions as English sentences:
 - (a) You miss the final exam unless you don't have the flu.
 - (b) You will not pass the course if you have the flu or miss the final.
 - (c) You have the flu and miss the final exam or you pass the course and attend the final exam.
- 2. State the converse, imverse, and contrapositive of English sentences:
 - (a) Converse: If I stay home, it will snow to night. Inverse: If it doesn't snow to night, I won't stay home. Contrapositive: If I don't stay home, it won't snow to night.
 - (b) Converse: If I go the beach, then it is a sunny summer day.

 Inverse: If it isn't a sunny summer day, then I won't go the beach.

 Contrapositive: If I don't go to the beach, then it isn't a sunny summer day.
 - (c) Converse: Inverse: Contrapositive: