

**Homework #2**

*Symbolizations:* Symbolize the following sentences. If it is unclear what simple English sentences your sentence letters represent, make it clear.

1. The phone rings if and only if I'm home but not asleep.
2. Kasparov is a Russian chess player, and a bad loser.
3. Unless I wake up, I'll neither teach the class nor hold my office hours.
4. Sally will get tenure if she publishes enough papers, provided she's not a terrible teacher.
5. If the exam is too difficult then there will either be a revolt or a mass suicide, unless everyone studies all night.
6. Philosophy is dull only if both logic and metaphysics are boring.
7. Provided Kyle Korver does not get hurt, a sufficient condition for the Sixers having a .500 season is acquiring a new coach or a new center.
8. Wesley and Troi playing prominent roles is necessary, but not sufficient, for Star Trek being good, unless I have no taste.
9. Worf wins the fight if he gets help and his opponent is not Q; otherwise he wins only if he is lucky.
10. If Tom stays inside only if it rains, and it is cloudy if it rains, and it not being cloudy is necessary for Tom to stay inside, then Tom does not stay inside. (Do you think this is true?)