

Phil 57 section 3  
Fall 2010  
Homework #7 – Translation into PL

*Translate the following English statements into PL using a scheme of abbreviation:*

1. Either John is tall or Mary is short.
2. Neither John nor Mary passed the exam.
3. It is not the case that Mary went to school.
4. Both Jim and Bill went to practice.
5. It is not the case that either Bill or Mary joined the army.
6. Both Zidane and Beckham play for Real Madrid.
7. It is not the case that both Zidane and Ribery will play for France.
8. Neither France nor Germany will play for second place.
9. Jim is not running this week.
10. Mary and Tom are going to the park.
11. Mary will not join the team and will not play the flute.
12. Mary will join the team or play the flute, but she won't do both.
13. Eating a balanced diet and exercising regularly are good for one's health.
14. John will go to school, and either Mary will not go to the park or Jim will.
15. John and either Mary or Frank will attend church today.
16. Either soccer fans are mellow or they are rowdy.
17. Mary and Bethany will not try out for the team.
18. It is not true that Mary and Bethany will both try out for the team.
19. Either Bethany will not win or Mary will not win.
20. It is not the case that Mary will not win.
21. Either Mary won't win, or Jim and Bill will go on to the semifinals.

22. If Mary goes to church, Bill will join the choir.
23. John will go to school only if Sue goes to school.
24. Having a driver's license is a necessary condition for driving a car.
25. A sufficient condition for being a US citizen is being born in the US.
26. John will join the team if Mark joins the team.
27. If John does not pass the test, then John will have to take it again.
28. If Mary isn't the daughter of Samantha, then it is not the case that Mary is the daughter of Bill.
29. Only if Mary wins the election will Bill run the following year.
30. Just in case Jim gets an A on every exam will Jim get an A in the class.
31. John is responsible for the crime only if John is a free agent.
32. If John has a justified true belief that a square is a rectangle, then John knows that a square is a rectangle.
33. A necessary and sufficient condition for John being a member of the X club is being over 21.
34. Mary is going to school if and only if she wakes up.
35. John is going to win the election only if John wins 38 states.
36. France will win the World Cup if and only if France beats Italy.
37. John will win the election only if Mary withdraws.
38. If France wins Group B, then if Germany wins Group A, Germany will play France only if Italy has fewer points than France.
39. Germany will play France only if Italy has fewer points than France.
40. If John goes to school, then Mary will stay home only if Bill will ride his bike.