TFL Symbolization Exercise

PHI 154 (Eliot) Fall 2020

Use the following symbolization key to symbolize each of the numbered sentences in truth-functional logic (TFL). Understand all of these to not have tenses, so "We win" and "We will win" are symbolized the same way.

G = We go.

W = We win.

L = We lose.

T = We try.

- 1. We won't lose.
- 2. If we try, we'll win.
- 3. We will go and try and win.
- 4. We won't not win.
- 5. If we go and try, we'll win and not lose.
- 6. We'll win only if we try.
- 7. We'll lose if we don't try.
- 8. We'll lose only if we don't try.
- 9. We won't lose if we try.
- 10. We will neither win nor lose.
- 11. If we go, we'll try and win, and not lose.
- 12. We'll go but we won't win.
- 13. We won't go or we won't try, but we won't lose.
- 14. We'll go and win or go and lose.
- 15. We'll either win or lose, but not both.
- 16. We won't both lose and win, if we go.
- 17. We'll win or lose only if we go.
- 18. We'll win if we try and lose if we don't.
- 19. If and only if we try, we'll win.
- 20. We'll lose if and only if we don't try.
- 21. We'll win if and only if we try and don't lose.
- 22. We'll neither go and win nor try and lose.
- 23. If we try, that's enough to win.
- 24. If we don't try, that's sufficient for us not to win.
- 25. We'll lose if and only if we neither go nor try.