

HOMework 5:

POLYADIC PREDICATE LOGIC TRANSLATIONS

Intro Logic
Ted Sider

Translate the following sentences. “Break up” the sentences as much as possible. If there’s a borderline case — if it isn’t clear whether something can be legitimately broken up — then break it up.

1. Everyone loves Jerry.
2. There is someone who is hated by everyone.
3. No one hates every politician.
4. Every good lawyer cheats some male politician (or other).
5. There is a famous movie star who disappoints every rude fan.
6. Every crooked insurance salesman cheats every naive client who trusts him.
7. Everyone who trusts herself climbs every mountain and fords some stream.
8. Some lawyer hates every politician who loves every movie star.
9. Every cat that catches every mouse that it sees scratches every person who pets it.
10. Ted stole a CD that cost \$10 from a store.
11. No person loses every book he borrows from Ted.
12. Ted doesn’t know anyone that is famous.
13. Every movie star who isn’t admired by any critic is poor.
14. If anyone watches Melrose Place, he is either insane or drugged.
15. If a sports announcer bites a friend (of his), then the announcer will be sued by the friend and the announcer will be unemployed.
16. If someone jumps out of an airplane, he will fall unless he has a parachute. (Hint: there are three quantifiers, two of them universal. Hint: ‘have’ is a predicate.)
17. If a politician harasses any of her constituents, the politician will not be re-elected and the constituent will sue. (‘Be re-elected’ and ‘will sue’ may be treated as single predicates).