

3.7.1. Translation and Construction Problems

A. Translate each of the following English sentences into the formal language.
(For each translation, first build a **translation table** linking English subject matter sentences with sentence letters.)

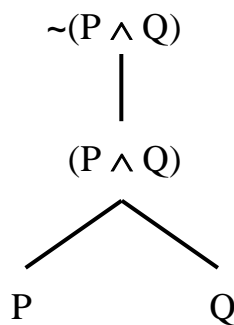
1. Jake quit his job and joined a cult, and he also shaved his head.
2. Both Trixie and Elvis will stay in Las Vegas, even though the casinos aren't hiring.
3. Although Jack is incapable of flight, both birds and squirrels fear him.
4. Either we'll have apple cake or bread pudding, or we'll have cherry pie.
5. Unless Ace helps us move the furniture, we'll either have to hire movers or finish the job tomorrow.
6. *Octonauts* is a show which both children and adults enjoy.
7. Dr. Slim is a therapist who practices medicine without having a license.
8. Though Neko is a cat who had a big lunch, she will not skip dinner.
9. Rex will not pass the exam even though he's a genius who doesn't need to study.
10. Suki passed Logic, and she did so without studying.
11. Neko is tired and hungry, and so is Jack.
12. Rex likes pie but Barbie doesn't, though they both like milkshakes.
13. Neither Kitty nor Barbie nor Trixie will travel with Dr. Slim.

B. For each of the following trees, cite the construction rule used in each step of the tree.

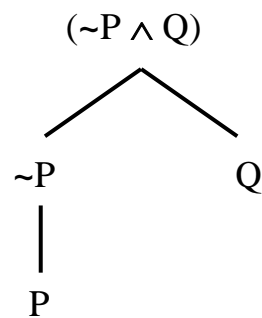
Chapter Three Construction Rules

1. Sentence letters are formal sentences.
2. If \bullet is a formal sentence, then $\sim\bullet$ is a formal sentence.
3. If \bullet and \blacktriangle are formal sentences, then $(\bullet \wedge \blacktriangle)$ is a formal sentence.
4. If \bullet and \blacktriangle are formal sentences, then $(\bullet \vee \blacktriangle)$ is a formal sentence.

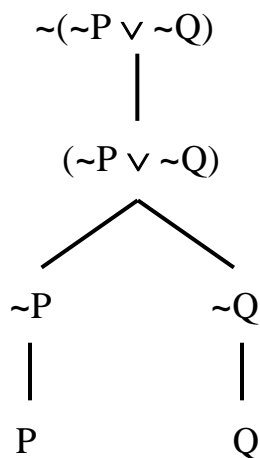
Tree 1



Tree 2



Tree 3



Tree 4

