

3.9.1 Translation and Construction Problems

Translate each of the following English sentences into the formal language; then build a **construction tree** for the formal sentence, showing which connective is the **main connective** of the sentence. (Provide a **translation table** for each translation.)

- 1a. Either it is not the case that Carnap was an existentialist, or Cassirer was a positivist.
- 1b. It is not the case that either Carnap was an existentialist or Cassirer was a positivist.
2. Either both Trixie and Elvis passed the exam, or the grades have not been announced.
3. Either Rex got up early, or he went to work without taking a shower.
4. Kitty will pass the exam without studying, unless she has a hangover.
5. Though Rex is neither strong nor a skilled fighter, he won't back down unless Ace apologizes.
6. Unless the buffet isn't serving fish, both Suki and Neko will go to dinner.
- 7a. It is not the case that even though Ace graduated from Yale he is wise.
- 7b. Even though it is not the case that Ace graduated from Yale, he is wise.
8. Neither Suki nor Neko will skip dessert, although they both had a big dinner.
9. Either Nick is hung over and so is Nora, or Nick is sick and so is Nora.

10a. It is not the case that Dr. Slim graduated from Yale and went to prison.

10b. It is not the case that Dr. Slim graduated from Yale, and he went to prison.

(11)

1. Ace doesn't drink and he drives.

∴ Ace doesn't drink and drive.

(Does this argument seem valid?)

(12)

1. Trixie won't bake a cake and buy a pie.

∴ Trixie won't bake a cake and she'll buy a pie.

(Does this argument seem valid?)

13. Neither Kitty nor Dr. Slim have both a law degree and a medical license.