

2.6.1. Translation Problems

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

1. Either Jack will wax his surfboard or he'll wax his surfboard.
2. Letitia's not a goth, and she's also not a goth.
3. Elvis neither went to the casino nor went to the casino.
4. Jake will not fail to appear at his bond hearing, even though he's irresponsible.
5. Unless Dr. Slim isn't unhappy, Kitty is happy.
6. Both Barbie and Rex failed to attend Logicpalooza.
7. It is not the case that neither Suki nor Neko ate dinner.
8. Lucretia reported the cable outage without being impolite.
9. Neither surfing nor mahjongg are illegal.
10. It did not fail to not be the case that Rex got his book published.

B. For each pair of English sentences, translate both sentences into formal language, then decide: do we translate both English sentences as **the same formal sentence**, or as two **different** formal sentences? (Use the **same translation key** for both sentences in the pair.)

(1a) Although we used a different method, the experiment didn't yield atypical results.

(1b) The experiment did not fail to yield typical results, yet we used a different method.

(2a) It's not raining unless it's cloudy

(2b) Either it's not raining, or it's cloudy.

(3a) Neither Barbie nor Rex failed to attend Logicpalooza.

(3b) Either Barbie or Rex attended Logicpalooza.

(4a) Neither Barbie nor Rex attended Logicpalooza.

(4b) Both Barbie and Rex failed to attend Logicpalooza.