

Chapter Three Translation Problems: Set 5

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

1. Either both Ace and Rex passed the exam, or the grades have not been announced.

(**P**: Ace passed the exam. **Q**: Rex passed the exam. **R**: The grades have been announced.)

2. Either the exam will be easy and Rex will pass the class, or the exam won't be easy and Rex won't pass the class.

(**P**: The exam will be easy. **Q**: Rex will pass the class.)

3. Both Suki and Neko will go to dinner unless the buffet isn't serving fish.

(**P**: Suki will go to dinner. **Q**: Neko will go to dinner. **R**: The buffet is serving fish)

4. Ace will pass the exam without studying, unless he has a hangover.

(**P**: Ace will pass the exam. **Q**: Ace will study. **R**: Ace has a hangover)

5. Either Ace is a quiz contestant who knows about history, or Rex is a ventriloquist who knows about history.

(**P**: Ace is a quiz contestant. **Q**: Ace knows about History. **R**: Rex is a ventriloquist. **S**: Rex knows about history)

6a. Either it is not the case that Carnap was an existentialist, or Cassirer was a positivist.

6b. It is not the case that either Carnap was an existentialist or Cassirer was a positivist.

(**P**: Carnap was an existentialist. **Q**: Cassirer was a positivist)

7a. It is not the case that Ace graduated from Yale and went to prison.

7b. It is not the case that Ace graduated from Yale, and he went to prison.

(**P**: Ace graduated from Yale. **Q**: Ace went to prison)