



- 1.a. i. no
 - ii. no
 - iii. yes
 - iv. yes
 - v. yes
 - vi. yes
 - b. (varies)

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- c. Change NP \rightarrow DET N to NP \rightarrow (DET) N; Add the rule NP \rightarrow NP⁺ CONJ NP.
- d. Yes. There are rules allowing for an infinite number of NPs within an NP and an infinite number of VPs within a VP.

=

=

Ν

V,

V,

DET

2. a. s

VΡ

- NP VP NP ---> (DET) N VP
 - V. NP **→**

- \rightarrow
 - ٧,

strummed, played = sang, danced =

his, the

John, Janet, Marilyn, Larry, guitar, trumpet

- b. Janet and Marilyn sang. Larry sang and danced.
- c. VP **-**→ VP⁺ CONJ VP CONJ = and

d. John played the trumpet and danced.

- Marilyn sang and strummed the guitar.
- 3. a. A verb with a sentence b. VP
 - **→** V, S c. Pro
 - ≃ he
 - N_{pr} = Sally, Robert, Cathy, Reno, Bill
 - Ν = mother, piano, car
 - V, = bought, plays
 - V, = lives V,
 - = denied, claimed, said
 - DET = her
 - d. The new rule $VP \rightarrow V_s$ S, in conjunction with S \rightarrow NP VP, allows an infinite loop.
 - In S \rightarrow NP VP, if we apply the new rule, we get S \rightarrow NP V_s S, in which there are sentential categories on both sides of the arrow, thus making the rule sequence recursive.
- 4. a. Sally lives in Reno.
 - Sally went to New York.
 - b. Harry met Sally in Chicago. Harry kissed Sally in New York.

5. In an NP like *a very intelligent woman*, the phrase *very intelligent* is neither an adjective nor a sequence of adjectives. It is a phrase composed of an adverb and an adjective. Hence, we need the modification (no pun intended).

File 6.6 Transformations

1. The PS rule VP \rightarrow V_t NP allows only transitive verbs to be followed by NP objects in a VP. *Disappear* and elapse, which are intransitive verbs, can't be followed by NP objects. The Wh- question transformation applies only to VPs where there is an NP (of the kind PRO wh-) in the VP. Since declarative sentences

*John disappeared what. *John will elapse what.

cannot be generated by the PS rules, the Wh-question transformation can't apply to these sentences so as to produce

*What did John disappear? *What will John elapse?

- 2. a. To transform the (i) sentences into the (ii) sentences, move the first NP so that it immediately follows the second NP, and then insert *to* before the NP just moved.
 - b. To transform the (i) sentences into the (ii) sentences, delete the part of the VP following the auxiliary verb in the second of the conjoined identical VPs.
 - c. To transform the (i) sentences into the (ii) sentences, first move the PP from inside the VP to the beginning of the sentence, then move the (subject) NP so that it immediately follows the verb.
- 3. a. Passive
 - b. The prepositional phrase transformation found in part (c) of question 2.
 - c. Passive
 - d. Verb + particle shift
 - e. Passive

File 6.7 Word Order Typology

$\left[\left[\left[\right]_{NP}\right]_{PP}\left[\right]_{NP}\right]_{NP}$

Boston from people = [[Boston] from] [people]] the barn in the mouse = [[the barn] in] [the mouse]]