1. [8] Fill in the missing labels for the nodes in the tree below. Where a node is the maximal projection of a lexical item, indicate it with the standard “X-bar” notation (e.g., NP for the maximal projection of a noun, v’ for an intermediate projection of v). The sentence is *Ned must always wear slippers with bells near Chuck*. The arrow is for use in question 4.

2. [6] In the sentence for which the structure is given above:
   a. Draw an arrow to the node in the specifier of vP. *(draw above)*
   b. Is *with bells* a constituent? ____
   c. Is *wear slippers* a constituent? ____
   d. Is *slippers with bells near Chuck* a constituent? ____
   e. Is *with bells* the complement of *slippers*? ____
   f. Does vP dominate the NP *Chuck*? ____

3. [2] Circle one: The verb shown in the structure above is

   ditransitive / transitive / unergative / unaccusative

4. [2] Circle every node in the tree above c-commanded by the node designated by the arrow.

5. [2] Name the θ-role that *[slippers with bells]* has:
6. Suppose we start building a structure for a sentence, and at a certain stage we wind up with a vP as shown (abstractly) below.

\[
\text{vP} \\
\text{NP}_1 \quad 	ext{v'} \\
\text{V+\text{v}} \\
\text{VP} \\
\text{NP}_2 \\
\text{PP} \\
\text{<v>} \\
\text{PP} \\
\text{P} \quad \text{NP}_3 \\
\text{P} \quad \text{NP}_5
\]

a. [2] Name the θ-role that the NP\(^2\) will have.

b. [2] If NP\(^5\) were an anaphor, which NPs could serve as an antecedent? (That is: Which NPs could potentially bind NP\(^5\)?)

c. [2] How many [TP] features were there, total, in these lexical items initially?

d. [3] Which of the following three sentences might plausibly include this kind of vP?

1. I put mittens with tassles on Tommy.
2. I introduced Mary to John on Thursday.
3. I mail flowers to people with influence.

7. [2] Circle one: The verb shown in the structure above is
ditransitive / transitive / unergative / unaccusative

8. Binding Theory. The sentence below is “trying to mean” John told Mary that his mother admires her (Mary). Two questions, about the sentence below:

\[\text{*He_1 told Mary_j that [John_i’s mother]_k admires herself_j.}\]


b. [2] Which Principle of Binding Theory is not violated in this sentence?
9. Suppose you had a sentence with the following abstract structure. I have provided two lexical items (the NP Frosty and the verb melt). Fall 2009 note: You will need to change the verb form in part (c) to whatever is appropriate, “melt” here is intended to represent the basic uninflected form. Assume too that the T is a present tense (nonpast) T.

\[
\text{TP} \quad \text{T'} \\
\text{NP} \\
\text{Frosty} \\
\text{[N]} \\
\text{Perf+T} \\
\text{[…pres…]} \\
\text{PerfP} \\
\text{<Perf>} \\
\text{vP} \\
\text{V+v} \\
\text{melt} \\
\text{VP} \\
\text{<V>} \\
\text{<NP>}
\]

a. [2] Irrelevant for Fall 2009, asks about something we haven’t covered yet.

b. [2] Irrelevant for Fall 2009, asks about something we haven’t covered yet.

c. [3] Write the sentence that this would be the structure for.

d. [2] What was the motivation to Merge T’ and NP? Fall 2009 note: I plan to say something about this in the review session, I mentioned it in passing in class.

e. [2] What was the motivation to Merge v and VP?

10. [3] What makes the following sentence ungrammatical, in terms of the system developed in class?

*Patricia should have put candles.