Problem 1. For each of the sentences in (i-iv):

a. (1 point each, 5 points total) For each italicized predicate, for each \( \theta \)-role that the predicate assigns, list the \( \theta \)-role (one of: Agent, Experiencer, Theme, Goal, Proposition) and indicate what constituent it is assigned to.

   Notes: Include whatever \( \theta \)-roles are assigned by \( v \) or \( n \) as well as whatever \( \theta \)-roles are assigned by \( V \) or \( N \)—as in the example tree.

b. (3 points for (i), 4 each for (ii-iii)) Draw a tree, showing where all the elements of the structure are after all of the movements are finished. See the example tree. Where something moves, put traces in the tree at each position occupied by the moving element. Connect the initial trace (at the original Merge position) to each subsequent trace and to the final position of the moved element with arrows. (Also note, CP should be the top node.)

   Notes: You do not need to list all of the features for each head. Draw everything in full (adjunction, DPs, etc.), as on the example tree. No triangles.

c. (1 point each, 5 points total) On the tree you drew for part (b), for each underlined DP circle the head that checks its case feature. Then, write the case it receives by the DP (one of: nominative, accusative, genitive, of).

   Notes: If the head is a complex head, circle the top node (see example tree). If the head has moved away after checking the case feature, circle the trace that is in the position where the case feature was checked.

   Example tree on next page
Problem 1(i) My stupid browser always crashes.

Problem 1(ii) It seems to have rained heavily.
Problem 1(iii) Who can we expect to bring the eggnog?

a. bring
AGENT: who
 THEME: the eggnog
a. expect
EXPERIENCER: we
PROPOSITION: (who) to bring the eggnog
Example for Problem 1: I will *enjoy* the vacation.
b.,c.

\[
\begin{array}{c}
\text{CP} \\
\text{TP} \\
\text{DP NOM} \\
\text{I} \\
\text{T} \\
\text{M} \\
\text{T} \quad < \text{M} > \\
\text{vP} \\
\text{v} \\
\text{v}^\prime \\
\text{vP} \\
\text{V} \\
\text{V} \quad < \text{V} > \\
\text{DP} \\
\text{D} \\
\text{the} \\
\text{nP} \\
\text{n} \\
\text{NP} \\
\text{N} \\
\text{vacation} \\
\end{array}
\]

\text{EXPERIENCER: I}
\text{THEME: the vacation}

Problem 2. (2 points) Suppose that there is a dialect of English, Ghelsin, that has all the same properties as English does (including vocabulary), except for the following:

a. T *lacks* the “EPP” feature: T does not have a [uD*] feature.

b. When valued by T, [uInfl:] is strong (always, not just for auxiliaries)

Write the Ghelsin translations of the following two English sentences (that is, put the words in the correct order for Ghelsin). *Note:* Ghelsin doesn’t exist. But it could, in principle.

(i) Lisa fervently hopes that it does not snow.
   *Hopes fervently* Lisa *that snows not.*

(ii) Bart does not seem to understand Binding Theory.
    *Seems not to* Bart *understand Binding Theory.*
Problem 3. (7 points) Concerning the tree above, on each of the following statements, write T if it is true, or F if it is false.

a. F DP ➊ is a Theme.  

b. T DP ➋ is a Theme.  

c. T DP ➄ is a Theme.  

d. F V ⃗ is unaccusative.  

e. T V ⃗ is unaccusative.  

f. T DP ⃄ could be an anaphor.  

g. F DP ➋ could be an anaphor.  

h. F C ⃥ values the case feature of DP ⃄ as accusative.  

i. T T ⃥ checks the case feature of DP ⃄ as nominative.  

j. F v ⃇ values the case feature of DP ⃄ as accusative.  

k. T v ⃇ values the case feature of DP ⃄ as accusative.  

l. F T ⃇ values the [uInfl:] feature of v ⃇.  

m. T T ⃇ values the [uInfl:] feature of v ⃇.  

n. F TP ➊ is adjoined to CP ➋.  

Problem 4. (1 point) Come up with an English sentence that the tree for problem 3 could be the structure for.
I will eat it before it melts.

Problem 5. (9 points; 1.5 per sentence × 6 sentences) For each of the ungrammatical sentences below, indicate what principle(s) of grammar is violated. It might be more than one.

- Note: Pay close attention to the indices.

- Note: Assume that the pronunciation matches the features: the problems are in the structures, not in the pronunciation of the features.
• **Note:** Principles will be one of: Principle A, Principle B, Principle C, Hierarchy of Projection, uninterpretable feature unchecked (name the feature).

**Overall average for this problem: 6.12 (2.10)**

i. * She\(i\) suspects Bart framed Lisa\(i\).  
   **Principle C.**

ii. * Lisa\(i\) introduced her\(i\) to him\(j\) after Henry\(j\) arrived.  
   **Principle B.**

iii. * Homer\(i\) believes himself\(i\) will win the lottery.  
    **Principle A.**

iv. * The donut is having eaten by Homer.  
   **Hierarchy of Projections.**

v. * Has not thoroughly Bart read the textbook.  
   Unchecked \([uD^*]\) feature on T.

vi. * Ralph\(i\) quietly is whispering to himself\(i\).  
    Unchecked \([uInfl:]\) feature on have.