Problem set 3

Use any of the grammar rules from the book to answer 1-3.

1. Give two examples of attachment ambiguity. Write out the ambiguous sentences and draw the parse trees that illustrate the ambiguities (2 per example; 4 total). If it’s possible to show the ambiguity using partial parse trees, you may just draw the pertinent parts. The two example sentences should have different syntactic structures. That is, you should not be able to just change the terminals and use the same parse trees for each of the examples.
2. Do the same for coordination ambiguity.
3. Give one example of local ambiguity and draw the parse trees, as above.
4. What is inefficient about a top-down approach to parsing? What is inefficient about a bottom-up approach?