1. Pick a naturally-occurring language fragment of your choice, in any language of your choice, approximately five sentences long (approximately 6–10 words per sentence).

   (a) Given our survey of empirical phenomena, what structures do you see that we did not talk about and/or that you are unsure in how to analyze? Give a brief characterization of the difficulties or uncertainties in analysis. It will help to think of comparable grammatical and ungrammatical sentences.

   (b) Turning specifically to dependency grammar: give a sketch of the challenges and opportunities for dependency analysis in your fragment. Providing trees will help. Think, too, about questions like: Are there corresponding ungrammatical sentences you might have difficulty ruling out with dependencies? Are there non-projective relations? Do you want multiple layers? Do you need different label types or features?

I’m envisioning a couple pages for this question, i.e., evidence that you’ve given a good deal of thought as to how dependencies do and don’t readily capture the phenomena you observe.

2. Provide a dependency analysis for the three sentences in (1) and explain what formal conditions you are or are not assuming. Defend any constraints or properties of the graphs that you had to develop on your own.

   (1) a. What did John say?
   b. What do you think John said?
   c. Jane wants to know what John said.

3. Discuss how the following sentence presents problems for a dependency grammar assuming projectivity. Presuming such sentences are grammatical, how would you propose to capture such sentences in English? Would you want full non-projectivity?

   (2) The man came into the room who laughed.
   (cf. The man who laughed came into the room.)

4. Consider the following sentences with coordinate structures:

   (3) a. Dick and Jane left.
   b. Dick and Jane carried a piano. (i.e., Dick did not carry a piano by himself)
   c. Dick ran and swam yesterday (and biked today).
   d. Dick ran and Jane swam yesterday.

   (4) a. Dick and Jane’s novels
   b. Dick’s and Jane’s novels

Knowing what you know about traditional dependency analyses, how would you propose to analyze these sentences in DG? Defend your analysis and explain any problems.