

5.2.x. Exercise questions

1. Analyze each of the following sentences in as much detail as possible.
 - a. *Tom was late unless he left early.*
 - b. *You'll get a good picture only if you take the cap off the lens.*
 - c. *Neither Ann nor Bill knew of it unless they both did.*
 - d. *The bill will pass if the chairman supports it—unless public opinion runs heavily against it.*
 - e. *Unless Ed is late, we'll get started on time and finish early if there isn't a lot of business.*
 - f. *If Bob was under no obligation to help, he worked only if he was in a good mood and had nothing to do.*
2. Synthesize idiomatic English sentences that express the propositions associated with the logical forms below by the intensional interpretations that follow them. These repeat **3 a, c, and d** of [5.1.x](#). This time, you should look for ways of stating sentences using *only if* and *unless*.
 - a. $\neg S \rightarrow \neg B$
S: *I'll see it*; B: *I'll believe it*
 - b. $\neg W \leftarrow \neg (P \wedge \neg B)$
W: *the set works*; P: *the set is plugged in*; B: *the set is broken*
 - c. $\neg (A \vee B) \rightarrow (G \leftarrow \neg (C \vee D))$
A: *Adams will back out*; B: *Brown will back out*; G: *the deal will go through*; C: *Collins will have trouble with financing*; D: *Davis will have trouble with financing*