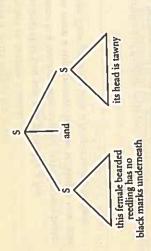
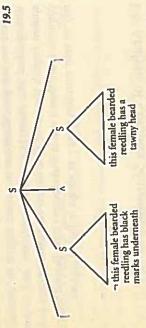
83

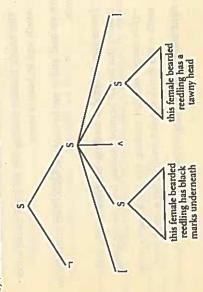
The answer is a matter of scope. In (19.1) the scope of and' is the whole sentence: 19.4



We shall express this by saying that the overall form of (19.1) is ' ϕ and ψ '. The correct translation (19.2) likewise has the overall form ' $[\phi \wedge \psi]$ ':



But in the incorrect translation, the scope of 'A' is only part of the sentence, and the overall form is ' $\rightarrow \phi$ ': 19.6



This example shows why we included the two brackets in our notation; without them it would be impossible to tell whether the scope of 'A' included '-, or not.

start with the truth-functor of largest scope, as shown by the overall form of To translate a complex sentence with more than one truth-functor, the sentence; then work inwards.

The following example will show how. We shall translate:

19.7 If the battery is flat, then the starter will be dead, and you won't get the car started unless we push it.

and ψ , or 'It's not true that ϕ ', or what? On the natural reading, the part We first look for the overall form of (19.7). Does it say 'If ϕ then ψ ' or ' ϕ after 'then' forms a unit, so the answer is 'If ϕ then ψ . The truth-functor of largest scope will be an arrow, and we can write

19.8 [the battery is flat → the starter will be dead, and you won't get the car started unless we push it] Next we find the largest constituent sentence which has no truth-functor symbols in it:

19.9 The starter will be dead, and you won't get the car started unless we push it. This has the overall form ' ϕ and ψ ', so that the truth-functor of largest scope in the translation of (19.9) will be conjunction:

19.10 the starter will be dead A you won't get the car started unless we push it]

The longest unanalysed constituent sentence of (19.10) is

19.11 You won't get the car started unless we push it. The overall form of (19.11) is ϕ unless ψ . Remembering to remove the cross-referencing as we introduce 'v', we write

19.12 (you won't get the car started v we'll push the car)

There remains

19.13 You won't get the car started. -you'll get the car started.