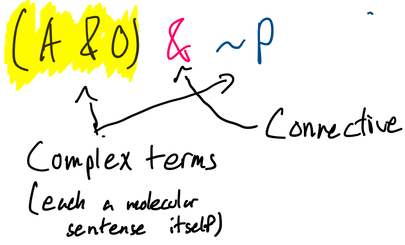
Examples

1. Apples are fruit, oranges are fruit, but potatoes are not.

$(A \& O) \& \sim P$

Make sure molecular sentences are broken up!

All molecular sentences should consist of two terms and a connective!



2. I'm not going to the party if Bob and Steve are.

I: I am going to the party
B: Bob is going to the party
S: Steve is going to the party

$(B \vee S) \supset \sim I = I \supset \sim(B \vee S)$

$\sim I \supset (B \vee S)$

Implies that the only reason I wouldn't go is because B or S is true, but that's not what the OG sentence implies.

3. I'll go to the party only if Karen goes

I = I go to the party
K = Karen goes to the party

$I \supset K$

If I am at the party, then Karen must have gone too.

4. If I go, you're going too.

I = I go.
Y = You go.

$I \supset Y$

If I go, you go too.
↳ Doesn't mean you won't go if I don't

5. The bar won't serve you unless you're legal age.

B = The bar serves you
L = You are of legal age

$\sim L \supset \sim B$

$B \supset L$