4/6 - Natural Deduction 2

Where were we before?

- We had established some rules for manipulating statements syntactically
- We want to be able to manipulate things such as
 - Or (V)
 - \circ And (\wedge)
 - Implies (->)
 - Not (~)

AND:

- Introduction rule:
 - o A, B |- A ∧ B
- Elimination rules:
 - A ∧ B | A
 - A ∧ B | B

OR:

- Introduction rules:
 - o A | A V B
 - B | A V B
- Elimination rule:
 - A V B, A...C, B...C |- C

NOT:

- Introduction rule:
 - ∘ A...False |- ~A
- Elimination rule:
 - ∘ ~A, A |- False