

No new formal rules in remainder of chapter 2

just learning to use the **Fitch** program

Be sure to work through the “**You try it**” sections carefully (and refer to software manual) to learn how to open, construct, and save proofs in Fitch.

Let's do some proofs together ...

Exercise 2.5

Proving the *transitivity of identity*:

We are told that $b = c$ and also that $a = b$. Using the first identity statement ($b = c$), by the **indiscernibility of identicals** we may substitute c for b in the second identity statement ($a = b$), giving us $a = c$ and proving the transitivity of identity.

Open **Exercise 2.16** in Fitch and construct a formal version of the above proof. Then do **2.18** and **2.20**

To prove an argument *invalid* (i.e., to prove *nonconsequence*), find a ***counterexample*** showing that it is possible in some 'world' for all the premises to be *true* but the conclusion *false*. (cf. pp. 63-65)

Al Gore is a politician.

Hardly any politicians are honest.

Therefore, Al Gore is dishonest.