PROOFS

- → PIRECT PROOF

 to prove p=) Q, assume p and show Q is true
- to prove P=) &, assume TQ and show TP is true.

 4 direct proof of the contrapositive TQ=) 1P
- o contradiction to prove p, assume of and expose a contradiction
- -) PROJE BY CASES

 when there exist multiple cases and we can't
 assume which is true, we must prove for each one
- > INDUCTION (coming soon!) in the notes

PROUF ADVICE

- approach instead.
- -) unpack definitions and properties given in the problem, and take advantage of theorems we see in class
- be careful to not assume what you're trying to prove
- good practice to start by stating your method of proof outlining your plan.
 - 4 this makes it easter to read your proof.