Common mistakes in proofs

Mistakes in arithmetic or basic algebra

and logical errors such as:

Generalizing from examples

- * if a fact holds true for particular element, + the fact holds true for all domain elements
- * to prove universal statements:
 - · either check every element in the domain, or
 - · prove the fact holds true for a generic / arbitrary element in the domain

Skipping sleps

- * must justify every step in a proof using allowed assumptions
- * it's an error to assume a Pact is true without proving a reason

Circular reasoning

* using the fact to be proven in the statement

Assuming Pacts that have not yet been proven and revery Pact in a proof must be proven and

revery lact in a proof must be proven and referenced or must be established within the proof