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- We demonstrate that a theorem is true using a proof.
- A less important statement that is helpful in the proof of other results is called a lemma.
- A corollary is a theorem that can be established directly from a theorem that has been proved.

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-<u>forward reasoning</u> (start from the premises use certain steps to reach the conclusion)

-<u>backward reasoning</u> (find a statement that will lead to the conclusion and move backward in the same way to reach the premises)

WARNING: You must never start from the conclusion or assume that it is true. Summer 2007 S. Abu Diab



