

Instructor Notes from Optional Induction Session slides:

Slide 4:

If $A \rightarrow B$ is true, and B is false, then A must be false

Answer to second question: $\neg A \text{ AND } B$

That's the only instructor note I had. These slides are from CSSE 230, but in 230 I leave out the proof in that course because students had not necessarily had MA 275 yet.

You should have seen a proof that induction works before, but perhaps you did not understand it at the time. I encourage you to look at it carefully this time. You should be in a position to understand it.

Also, I recommend that you do the suggested exercise (using contradiction to prove that strong induction is a valid proof technique) if you are not very confident about that.