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(1) The parallel postulate is independent from the other axioms, and it cannot be determined or proved with the others.

(2) Gödel's idea states that there are unprovable truths, that we know of. Therefore, in mathematics there must be theories that always are true but unprovable. "This statement is unprovable" is an example, the general idea says that you cannot prove it, but it is true.

(3) Dr. Z's version of the theorem says that there are neither provable or unprovable statements, but there are also statements that are utterly wrong.

Dr. Z also mentions Turing's problem with infinity and the Turing machine.

(4) i) A or B must be known or the other must not be true.

ii) A or B cannot be a lie, and a truth teller. They cannot have those views, they must be contradicting.

iii) They cannot all be lies, for they would not have called each other lies.

iv) Again, they cannot all be lies, or one would have said that someone was a "truth teller".