

Peano Arithmetic

The goal of the presentation is to discuss Peano arithmetic. Your presentation should include at least

- A discussion of the the axioms of Peano arithmetic.
- Its relationship with induction (which axiom(s) allows proof by induction?).
- A discussion of the consistency of Peano arithmetic (what does it mean to be consistent?)

In addition your presentation should include at least one thing not on the above list.

At the end of your presentation the class will be asked one of the following questions.

- How many axioms are there?
- In what year were the axioms published?
- What type of number to the axioms talk about: Natural numbers, Rational numbers or Real numbers?

A good starting point for your research is

http://en.wikipedia.org/wiki/Peano_axioms

If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman