

# Diskmath Week 7

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# Hello

I am Emil.

I have a **website**:

[emils.site](http://emils.site) (yes thats the URL)

repo: <https://github.com/emil3tr/emil3tr.github.io>

All materials will be uploaded  
there.

Any Feedback / Questions /  
Wishes / ... ?

→ [estraschil@student.ethz.ch](mailto:estraschil@student.ethz.ch)

→ “Emil” (floxi4) on dinfk-discord

→ Diskmath-questions: ask here  
so others can benefit (:

# Where are we right now?

Basics

Sets and  
Relations

Number Theory

Algebra

Logic

Abstraction  
Formulas  
Statements  
Prop. Logic  
Pred. Logic  
Proof Patterns

Sets  
Set Operations  
Relations  
Equivalence  
Partial Order  
Functions  
Countability

Division  
Primes  
Modular Arith.  
Diffie-Hellman

Monoids  
Groups  
Euler Totient  
RSA  
Rings  
Polynomials  
Finite Fields  
Err. Corr. Codes

Proof Systems  
Logic  
Calculi  
Res. Calculus  
Prop. Logic  
Pred. Logic



# Today

1. Last Exercise Sheet
2. Kahoot
3. Euclid Algorithm
4. (Theory Recap)
5. Exercises
6. (CRT Algorithm)
7. (Extended Euclid)

Everything we won't have time for  
is on the website

Ask questions, so we can cover  
what you need

# Questions?

# Next Week

I have an exam ):

→ CLASS ON MONDAY WILL NOT  
HAPPEN !!

BUT

We will (probably) get a room for  
Tuesday (probably 16:15).

You will get a mail (If not then write  
me! I couldn't add everyone to  
mailing list)

# Last Kahoot

A set which contains all countable sets can actually not exist.

Ask me in the break for proof, I hope I still remember it (:

# Last Serie

Any Questions before  
Kahoot?