

Diskmath Week 5

Emil Straschil

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Hello

I am Emil.

I have a **website**:

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

→ “Emil” (floxi4) on dinfk-discord

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

Where are we right now?

Basics

Abstraction
Formulas
Statements
Prop. Logic
Pred. Logic
Proof Patterns



Sets and
Relations

Sets
Set Operations
Relations
Equivalence
Partial Order
Functions
Countability

Number Theory

Division
Primes
Modular Arith.
Diffie-Hellman

Algebra

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

Logic

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

Today

First Half:

1. Info, Questions
2. Relations Kahoot / Recap

Second Half:

1. How to prove Relation Properties
2. Exercises

Questions?

Email List

If you are not enrolled here:

Go to [emils.site](#) -> week5 -> Email form.

Put your email there so I can add you to my mailing list.

Kahoot / Theory?

Kahoot

Theory

Feedback Form

Go to [emils.site](#) -> week5 ->
feedback form

Please do it, helps me (and you) A
LOT!