



*Precalculus, September 2017, HAW Hamburg
presented by Dr. Joerg Gayler*

“Precalculus” 2017

Dates and rooms: Hamburg, Berliner Tor 7, September 11 to 13, Room 1260,
September 14 to 15, Room 1465

On Monday, 11. 9., we start at 10 o'clock.

Usual times: 9:00 to 15:00, including breaks.

Material for this English course “Precalculus”:

see “Precalculus” at the web page <http://math-grain.de/>

The given material corresponds however to a course of two weeks

A list of covered subjects is given below.

The time schedule given below may still change.

Introduced Topics

- Number sets
- Powers
- Fractions
- Linear equations and functions
- Quadratic equations and functions
- Root functions, radical equations
- Logarithms
- Trigonometry
- Vector calculus
- Functions and their properties
 - Monotonicity, symmetries, implicit functions, inverse functions
 - exponential and logarithmic functions, trigonometric functions
- Complex Numbers or Derivatives ?

Monday, 11th September :

- Welcome address, generalities
- number sets
- powers
- fractions
- powers and roots
- linear equations and functions
- all interspersed with exercises

Tuesday, 12th September :

- repetitions, exercises
- more on linear equations and functions
- quadratic equations and functions
- the root function
- radical equations

Schedule

- functions in general
- exponential function
- all interspersed with exercises

Wednesday, 13th September :

- repetitions
- more on functions in general
- logarithms
- trigonometry

Thursday, 14th September :

- repetitions
- vector calculus

Friday, 15th September :

- more on vector calculus
- Complex numbers or Derivatives?