Precalculus, September 2019, HAW Hamburg

presented by Dr. Joerg Gayler

<u>Dates and rooms :</u>   Hamburg, Berliner Tor 7, September 9 to 13, Room 12.60

On Monday, 9. 9., we exceptionally begin at 10 o'clock .

<u>Usual times:</u> 9:00 to 14:30, including breaks, can be discussed.

<u>Material</u> 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.

- 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

- Derivatives ?

Monday, 9th September :

  – Welcome address, generalities

  – number sets

  – powers

  – fractions

  – powers and roots

  – linear equations and functions

  – all interspersed with exercises

Tuesday, 10th September :

  – repetitions, exercises

  – more on linear equations and functions

  – quadratic equations and functions

  – the root function

  – radical equations

- functions in general

- exponential function

- all interspersed with exercises

Wednesday, 11th September :

- repetitions

- more on functions in general

- logarithms

- trigonometry

Thursday, 12th September :

- repetitions

- vector calculus

Friday, 13th September :

- more on vector calculus

- Derivatives?   Or some tasks in groups?