

IO2: Functions (Mathematics) – University of Zagreb, Faculty of Science

Aims of the module: preparing future teachers in teaching modelling and solving problems with functions

1.Acquiring the concept of a function and dealing





with different representations of functions [conversion between words, tables, graphs and formulas]

2. Building a repertoire of elementary functions and recognizing their similarities and differences [linear, quadratic, exponential etc.] 3. Functions in real world – observing dependencies and modelling with functions [interpolation, braking distance, area etc.]

Using different

Consider a car braking in such a way that the speed decreases by 10 km/h every 0.4 seconds. You are asked to investigate how the braking distance relates to speed just before braking

Observing functions in every-day life and

solving problems in

different contexts



X

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