



”On the way” to the function concept – experiences of a teaching experiment

GYÖNGYI SZANYI

Abstract. Knowing, comprehending and applying the function concept is essential not only from the aspect of dealing with mathematics but with several scientific fields such as engineering. Since most mathematical notions cannot be acquired in one step (Vinner, 1983) the development of the function concept is a long process, either. One of the goals of the process is evolving an ”ideal” concept image (the image is interrelated with the definition of the concept). Such concept image plays an important role in solving problems of engineering. This study reports on the beginning of a research aiming the scholastic forming of the students’ function concept image i.e. on the experiences of a ”pilot” study. By the experiment, we are looking for the answer of the following question: how can the analysis of such function relations be built into the studied period (8th grade) of the evolving process of the function concept that students meet in everyday life and also in engineering life?

Key words and phrases: formation of the function concept, concept image, real life situations, engineering area.

ZDM Subject Classification: D43, U73.

GYÖNGYI SZANYI
UNIVERSITY OF DEBRECEN, FACULTY OF ENGINEERING
DEPARTMENT OF BASIC TECHNICAL STUDIES
4028 DEBRECEN, ÓTEMETŐ STR. 2-4.

E-mail: szanyi.gyongyi@science.unideb.hu

(Received October, 2018)