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The investigation of students’ skills in the process of function concept creation.

Summary: Function is a basic concept of mathematics, in particular, mathematical analysis. After an analysis of the function concept development process, I propose a model of rule following and rule recognition skills development that combines features of the van Hiele levels and the levels of language about function. Using this model I investigate students’ rule following and rule recognition skills from the viewpoint of the preparation for the function concept of sixth grade students (12–13 years old) in the Ukrainian and Hungarian education system.

Classification: I23

Keywords: function concept; secondary education; features of van Hiele levels; rule following and rule recognition skills