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Argumentation in Mathematics Education

Definition

"Argumentation in Mathematics Education" can mean two things:

1. The mathematical arguments that students and teachers produce in mathematics classrooms, or
2. The arguments that mathematics education researchers produce regarding the nature of **mathematics learning** and the efficacy of **mathematics teaching** in various contexts.

This article is about the first of these two interpretations.

Mathematics Classrooms and Argumentation

In the context of a mathematics classroom, we will take a "mathematical argument" to be a **line of reasoning** that intends to show or explain why a mathematical result is true. The mathematical result might be a general statement about some class of mathematical objects or it might simply be the solution to a mathematical problem that has been posed. Taken in this sense, a mathematical argument might be a formal or informal proof, an explanation of how a student or teacher came to make a particular ... [read more]

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