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Reflections on problem solving theory and practice.

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Summary: In this article, the author reflects on the current state of mathematical problem solving, both in theory and in instruction. The impact of the book [*A. H. Schoenfeld*, Mathematical problem solving. Orlando, FL: Academic Press (1985; ME 1986a.01069)] is also discussed, along with implications of problem solving today with the advent of 21st century technologies.

Classification: D50

Keywords: problem solving; state of the art; theory and practice; research; evaluation; history of mathematics education; knowledge; problem solving strategies; approach; heuristics; monitoring; self-regulation; metacognition; beliefs; student attitudes; problem solving courses; theory of problem solving; decision-making; teaching; learning; curriculum development; standards; goals of mathematics education; classroom environments; technology

http://www.math.umd.edu/tmme/vol10no1and2/1-Schoenfeld_pp9.34.pdf