

Record in the Commens Bibliography. Retrieved from
http://www.commens.org/bibliography/journal_article/sabre-ru-m-2015-mathematics-and-peirces-semiotic,
25.01.2026.

Type: Article in Journal

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Title: Mathematics and Peirce's semiotic

Year: 2015

Journal: Semiotica

Volume: 2015

Issue: 207

Pages: 175-183

Keywords: Mathematics

Abstract: It is shown here that Peirce's ten trichotomies, specifically art as discussed in , provides a structure for presenting a mathematical conjecture and provide a heuristic for going about attempting a mathematical proof of the conjecture. The mathematics is presented through the work of the mathematical proof theorists George Polya and Daniel Solow. Here a geometric conjecture is shown to be true using a ten trichotomy context for a proof. Thus through the structure of mathematical proof the ten trichotomy structure validates itself.

ISSN: 00371998

DOI: 10.1515/sem-2015-0061

Language: English