

1135-VI-1713 **Igor V Minevich*** (minevich@rose-hulman.edu), Rose-Hulman Institute of Technology, 5500 Wabash Avenue CM129, Terre Haute, IN 47803. *The Importance and Joy of Teaching an "Ideas in Mathematics" Class*. Preliminary report.

The most enjoyable class I have ever taught, called "Ideas in Mathematics", is designed to show students the "spirit, beauty, and vitality of mathematics". I'd like to briefly discuss how important such a class can be in changing the world's perception of mathematics and then give you a few ideas for teaching this kind of class. I will also share some ways that you can implement these ideas in other lower-level classes. For example, in my class students work with NP-complete and other puzzles; these puzzles can be used in calculus as a prequel to complexity theory and O-notation. Students also make a presentation and write a paper on a completely open-ended topic of their own choosing; I have also implemented this in Calculus with pleasing results. (Received September 24, 2017)