

1154-R1-2725

Elizabeth A. DeWitt* (elizabeth.dewitt@trnty.edu). *The Search for Truth in A Certain Ambiguity*. Preliminary report.

Gaurav Suri and Hartosh Singh Bal in their text *A Certain Ambiguity: A Mathematical Novel* invite us to peer over the shoulders of Ravi Kapoor and his classmates as they explore infinity, our pencils in hand to beat them to the completion of several famous mathematical arguments. Juxtaposed is Ravi's discovery of the secret story of his grandfather, who as a young mathematician was jailed awaiting certain conviction for his confidence in Euclid and the axiomatic method. In both the real and fictional classrooms, a key purpose of grappling with infinity, geometry, and their development is, as the fictional Dr. Nico Aliprantis says, "understanding how humans think and understanding the limits of what we can think." By creating an accessible context through the mathematical examples, the struggles of the characters, and even the imagined commentaries of the great mathematicians themselves, the novel exposed students in a capstone course to the philosophical impact of several modern mathematical discoveries and challenged them to consider what we know and how we know it. (Received September 17, 2019)