

Platonism In Mathematics

Platonism In Mathematics - Platonism in the Philosophy of Mathematics There are mathematical objects. Abstractness. 2. The Fregean Argument for Existence. We now describe a template of an argument for... 3. Objections to Mathematical Platonism. A variety of objections to mathematical platonism have been... 4. Between ...This is the well-known method of set theory. The platonistic conceptions of analysis and set theory have also been applied in modern theories of algebra and topology, where they have proved very fertile. This brief summary will succeed to characterize platonism and its application to mathematics. In particular, such an account of mathematics is a variety of (mathematical) platonism if and only if it entails some version of the following three Theses: Existence: Some mathematical ontology exists. Abstractness: Mathematical ontology is abstract. Independence: Mathematical ontology is ...Empiricism. Mathematical empiricism is a form of realism that denies that mathematics can be known a priori at all. It says that we discover mathematical facts by empirical research, just like facts in any of the other sciences. It is not one of the classical three positions advocated in the early 20th century,...