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Vol 1 Foundations of Mathematics the Real Number System and Algebra. Eventually successful attempts to clear up the nature of the real numbers. Since many of these paradoxes had already become apparent in antiquity, it is natural to ask why we are now able to deal with them successfully, whereas the ancients found them completely intractable. The answer is that the paradoxes necessarily remained intractable as long as they were expressed in one of the natural languages, such as English. On the shaky ground of such an imprecise language it is impossible to deal with questions of great subtlety, and our present-day successes are entirely due to a new instrument, the construction of the number systems from the Peano Postulates more properly belongs to a course in real analysis or in the foundations of mathematics; the curious reader may find this material in a variety of sources, for example [Blo11, Chapter 1]. (4) Section 3.4 on families of sets has been thoroughly revised, with the focus being on families of sets in general, not necessarily thought of as indexed. At the high school level, when we learn algebra and geometry, things get more abstract. We prove some things, for example in geometry, and do others computationally, for example algebra. To a mathematician, by contrast, there is no split between how we do algebra and how we do geometry: everything is developed axiomatically, and all facts are proved rigorously.