

An amazing fact about mathematics is that you can use so much of it in places its inventors never imagined. The early pioneers of computers science, who were actually mathematicians, almost certainly had no idea that their invention would lead to funny cat videos — and yet there is *so much mathematics* in funny cat videos! Someone should write an article about it someday, because, sadly, that’s not what this book’s about.

Rather, we would like to think this book would be useful for any situation where an individual is moving from high school mathematics, in which we include basic calculus, to university mathematics, which includes intermediate calculus and a lot of stuff besides, much of which seems to make the average mathematics major regret having chosen the major. ...

Technology has become an indispensable aspect of most mathematics education. At many universities, students engage in long-term research projects that would have been unthinkable when the authors were in college. Honestly, the amount of computing power in your cell phone is more than we had in our home computers as children — assuming our families could even *afford* a home computer. ***We live in a magical world,*** and part of our aim is to open the reader's eyes to the wonders of the world we live in.

(adapted from the Preface)

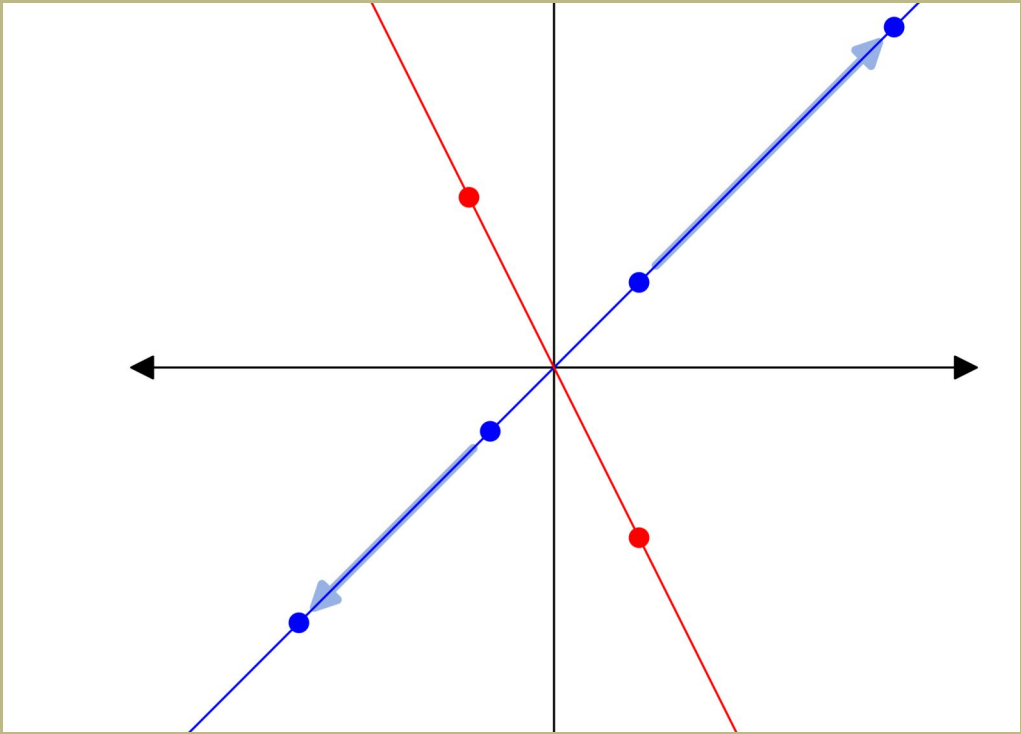


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# Peering into Mathematics through Sage-colored Glasses



John Harris · Karen Kohl · John Perry