

envision math geometry student edition

envision math geometry student edition is a comprehensive educational resource designed to enhance students' understanding of geometric concepts through a structured and interactive approach. This edition integrates visual learning, real-world applications, and step-by-step problem solving to support student success in geometry. It emphasizes critical thinking, spatial reasoning, and mathematical communication, making it ideal for middle and high school students. The envision math geometry student edition includes a variety of exercises, practice problems, and assessments aligned with common core standards. This article explores the features, benefits, and instructional strategies associated with this edition, helping educators and learners maximize their geometry learning experience. Below is an overview of the key topics covered in this article.

- Overview of the Envision Math Geometry Student Edition
- Key Features and Components
- Instructional Approach and Methodology
- Benefits for Students and Educators
- Integration with Technology and Resources
- Assessment and Progress Monitoring

Overview of the Envision Math Geometry Student Edition

The envision math geometry student edition serves as a foundational textbook and workbook hybrid that supports geometry learning through clear explanations and visual aids. It covers essential topics such as points, lines, angles, triangles, polygons, circles, and three-dimensional figures. The content is organized to progressively build students' skills from basic concepts to more advanced geometric reasoning. Each chapter provides definitions, theorems, and proofs, fostering a deep understanding of geometric principles. The edition is tailored for classroom use, homework, and self-study, ensuring flexibility in diverse learning environments.

Target Audience and Grade Levels

This edition is specifically designed for middle school and high school students, typically ranging from grades 7 through 10. It aligns with state and national standards to prepare students for standardized tests and higher-level math courses. The material is presented in a way that accommodates

different learning styles, making it accessible to a broad range of learners.

Alignment with Educational Standards

Envision math geometry student edition closely follows the Common Core State Standards for Mathematics (CCSSM) and incorporates Next Generation Science Standards (NGSS) where applicable. This alignment ensures that students develop the skills required for academic achievement and college readiness. The curriculum emphasizes mathematical practices such as problem-solving, reasoning, and modeling.

Key Features and Components

The envision math geometry student edition is packed with features designed to support comprehensive geometry instruction. These components work together to facilitate understanding and application of geometric concepts in a student-friendly format.

Visual Learning Aids

One of the standout features is the use of diagrams, illustrations, and interactive visuals that clarify complex geometric ideas. These visual aids help students grasp spatial relationships and geometric properties more effectively. Step-by-step visual explanations accompany problem-solving methods to enhance comprehension.

Practice Problems and Exercises

Each chapter contains a variety of practice problems, ranging from basic skill-building exercises to challenging application questions. These problems are designed to reinforce concepts and encourage critical thinking. The exercises include:

- Multiple-choice questions
- Open-ended problems
- Real-world application tasks
- Proof-writing assignments

Glossary and Reference Sections

The edition includes a comprehensive glossary of geometric terms and a quick-reference section for formulas and theorems. This allows students to easily review and recall important information as they progress through their studies.

Instructional Approach and Methodology

The instructional design of envision math geometry student edition employs a balanced approach that combines conceptual understanding with procedural fluency. The methodology fosters active learning and encourages students to explore geometric relationships independently and collaboratively.

Conceptual Understanding

The curriculum emphasizes understanding the “why” behind geometric rules and formulas. Lessons often begin with exploratory activities or real-life examples that promote inquiry and discovery. This approach helps students develop a solid foundation before moving to abstract reasoning.

Procedural Fluency and Practice

Alongside conceptual learning, the edition provides ample opportunities for procedural practice, enabling students to master calculations, constructions, and proofs. Repetitive exercises ensure that students can efficiently apply geometric principles in different contexts.

Collaborative Learning

Group activities and discussion prompts are integrated to foster collaboration and communication. This strategy helps students articulate their reasoning and learn from peers, promoting deeper engagement with the material.

Benefits for Students and Educators

The envision math geometry student edition offers numerous advantages for both learners and teachers. It supports differentiated instruction and addresses diverse educational needs within the geometry classroom.

Student Engagement and Motivation

With its clear visuals and relatable examples, the edition keeps students engaged and motivated to learn geometry. The inclusion of real-world problems demonstrates the relevance of geometry in everyday life and various careers.

Teacher Support and Resources

Educators benefit from detailed lesson plans, answer keys, and supplemental materials that complement the student edition. These resources streamline lesson preparation and help address varied student abilities effectively.

Improved Learning Outcomes

Research indicates that using structured and interactive materials like the envision math geometry student edition can improve student understanding and test performance. Its scaffolded design supports gradual skill development and confidence building.

Integration with Technology and Resources

The envision math geometry student edition embraces modern educational technology to enhance the learning experience. Digital tools and online platforms are integrated to complement the textbook content.

Interactive Digital Components

The edition is often paired with digital workbooks, tutorials, and virtual manipulatives that allow students to explore geometry concepts dynamically. These tools provide immediate feedback and adaptable practice opportunities.

Online Assessment and Tracking

Teachers can use accompanying software to monitor student progress, assign quizzes, and analyze performance data. This facilitates targeted instruction and timely intervention.

Supplemental Video Lessons

Video tutorials and instructional clips provide alternative explanations and visual demonstrations, catering to various learning preferences and reinforcing classroom instruction.

Assessment and Progress Monitoring

Effective assessment is a critical component of the envision math geometry student edition. The program incorporates both formative and summative assessments to gauge student understanding and guide instruction.

Formative Assessments

Regular quizzes, exit tickets, and in-class activities help teachers identify areas of strength and weakness throughout the instructional process. These assessments encourage ongoing reflection and adjustment.

Summative Assessments

Chapter tests and cumulative exams measure comprehensive knowledge and readiness for subsequent topics. They provide benchmarks for student achievement aligned with academic standards.

Progress Reports

Detailed reporting tools allow educators to track individual and class-wide progress over time. These insights support data-driven decisions to enhance teaching effectiveness and student outcomes.

Frequently Asked Questions

What is the Envision Math Geometry Student Edition?

The Envision Math Geometry Student Edition is a comprehensive textbook designed to teach geometry concepts to middle and high school students, featuring interactive lessons, visual explanations, and practice problems.

Which grade levels is Envision Math Geometry Student Edition intended for?

Envision Math Geometry Student Edition is primarily intended for students in grades 8 through 10, aligning with typical geometry course standards.

Does Envision Math Geometry Student Edition align with Common Core standards?

Yes, the Envision Math Geometry Student Edition is aligned with Common Core State Standards to ensure it meets current educational requirements.

What types of resources are included in the Envision Math Geometry Student Edition?

The edition includes a variety of resources such as step-by-step lessons, visual models, practice problems, real-world application tasks, and assessments to support student learning.

Is there a digital version of the Envision Math Geometry Student Edition available?

Yes, Pearson offers a digital version of the Envision Math Geometry Student Edition, which includes interactive features and online assessments.

How does Envision Math Geometry Student Edition support different learning styles?

The book incorporates visual aids, hands-on activities, and interactive technology to cater to visual, kinesthetic, and auditory learners.

Can teachers access supplementary materials with the Envision Math Geometry Student Edition?

Yes, teachers have access to supplementary materials such as lesson plans, answer keys, and assessment tools to enhance instruction.

What topics are covered in the Envision Math Geometry Student Edition?

Topics include points, lines, planes, angles, triangles, polygons, circles, area, volume, coordinate geometry, and proofs.

How can students best utilize the Envision Math Geometry Student Edition for studying?

Students should actively engage with the visual examples, complete practice problems, use the interactive digital tools if available, and review summary sections to reinforce understanding.

Additional Resources

1. Envision Math Geometry Student Edition Volume 1

This volume covers foundational geometry concepts including points, lines, planes, angles, and transformations. It provides step-by-step lessons with visual aids to enhance student understanding. Practice problems and real-world applications are emphasized to build critical thinking skills.

2. Envision Math Geometry Student Edition Volume 2

Continuing from Volume 1, this edition delves into advanced topics such as polygons, circles, area, and volume. It includes interactive exercises and detailed explanations to support student learning. The book is designed to prepare students for standardized tests and higher-level math courses.

3. Envision Math Geometry Teacher's Guide

This guide offers teachers comprehensive lesson plans, assessment tools, and instructional strategies aligned with the Envision Math Geometry curriculum. It helps educators effectively deliver content and manage classroom activities. Additionally, it includes tips for differentiating instruction to meet diverse student needs.

4. Envision Math Geometry Practice Workbook

A supplementary workbook filled with additional exercises and practice problems that reinforce the concepts taught in the student edition. It provides varied question types to challenge students and improve problem-solving skills. The workbook serves as an excellent resource for homework and test preparation.

5. Envision Math Geometry Interactive Student Edition

This digital version of the student edition incorporates interactive features such as videos, animations, and quizzes to engage learners. It allows students to explore geometric concepts dynamically and receive instant feedback. The interactive format supports diverse learning styles and self-paced study.

6. *Envision Math Geometry Assessments and Tests*

A collection of formative and summative assessments designed to evaluate student understanding of geometry topics. The book includes quizzes, chapter tests, and benchmark exams aligned with the Envision Math curriculum. Answer keys and scoring guides assist teachers in efficient grading.

7. *Envision Math Geometry Problem-Solving Handbook*

Focused on developing critical thinking and analytical skills, this handbook provides strategies and tips for tackling complex geometry problems. It includes worked examples, hints, and practice questions to guide students through various problem-solving methods. The book encourages logical reasoning and persistence.

8. *Envision Math Geometry Real-World Applications*

This title emphasizes the practical use of geometry in everyday life and various professions. It presents case studies, projects, and activities that connect mathematical concepts to real-world scenarios. Students gain a deeper appreciation of geometry's relevance and utility.

9. *Envision Math Geometry Student Edition with Answer Key*

This edition contains the full student text accompanied by a comprehensive answer key for all exercises and problems. It is a valuable resource for self-study and review, enabling students to check their work independently. The answer key supports teachers in providing timely feedback.

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rich and deep. We are like groves of aspen trees--individual trees that are connected at the roots.

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envision math geometry student edition: *Culturally Responsive Teaching* Geneva Gay, 2018-01-26 Challenges and perspectives -- Pedagogical potential of cultural responsiveness -- The power of culturally responsive caring -- Culture and communication in the classroom -- Ethnic and cultural diversity in curriculum content -- Cultural congruity in teaching and learning -- A personal case of culturally responsive teaching praxis -- Epilogue: looking back and projecting forward.

envision math geometry student edition: *Hands-On Math, Gr. 4-5, eBook* Pamela Amick Klawitter, 2009-02

envision math geometry student edition: *Cultures of Curriculum* Pamela Bolotin Joseph, 2011-05-20 Using cultures of curriculum as a lens, this clear, compelling text reveals and critically examines the belief systems and classroom practices of curricular orientations in contemporary American society. It is designed to foster awareness, examination, and deliberation about the curricula planned for and carried out in classrooms and schools; to inspire conversations about theory and practice as well as political, social, and moral issues; and to expand critical consciousness about approaches to curriculum and practice. Readers are encouraged to give serious attention to the issues this book raises for them, and to join with their colleagues, students, and communities in considering how to create curricula with purpose and congruent practices and to reculture classrooms and schools. A framework of inquiry is presented to facilitate such reflection and to accomplish these goals. *Cultures of Curriculum, Second Edition*: Introduces the field of curriculum studies by describing theories and questions pertinent to curriculum inquiry Describes the process of curriculum leadership drawing from historical and contemporary research on curriculum change and transformation Presents the concept of cultures of curriculum as a way of thinking of curriculum as cultural text encompassing histories, norms, beliefs, values, roles, and environments. Connects theory to practice by describing curricular orientations as depicted in practice, providing educators with approaches to instruction, planning, and assessment for creating intentional practices in classrooms and schools Uses a heuristic that helps educators to understand curricular orientations, examine curriculum in classrooms and schools, and reflect upon their own beliefs and practices Integrates moral and political discourse into discussions of curriculum orientations so that educators can recognize, question, and challenge aims and actions by examining dominant paradigms and both their direct and unforeseeable influences upon schooling Changes in the second edition: Four new chapters - Narrowing the Curriculum (current trends of standardization and high-stakes testing) Educating Through Occupations (Deweyan progressive and career/technical education) Sustaining Indigenous Traditions (Native American/indigenous education) Envisioning Peace (peace, global, human rights, environmental education) Updates and pertinent scholarship in all chapters reflecting recent events and discourses Curricular cultures all are examples of progressive alternatives to traditional education New two-part structure: Curriculum Studies and Curricular Cultures

envision math geometry student edition: *Student Voice: 100 Argument Essays by Teens on Issues That Matter to Them* Katherine Schulten, 2020-09-15 Finally, mentor texts written by teenagers, to help your students craft convincing arguments. In this new collection of 100 essays curated by The New York Times, students will find mentor texts written by their peers—13-to-18-year-olds—on a wide range of topics, including social media, race, video games, lockdown drills, immigration, tackle football, and the #MeToo movement. All of the essays were

either winners or runners-up from The New York Times Learning Network 2014–2019 Student Editorial contests, in which students could take on any issue they liked and, in 450 words or fewer, persuade readers—including educators from around the country as well as Times judges—to adopt their point of view. The essays have been selected for their voice, style, and use of evidence, as well as to present snapshot of issues across a dozen categories that are of particular interest to adolescents. Student Voice is also available as a package with *Raising Student Voice: 35 Ways to Help Students Write Better Argument Essays*, from The New York Times Learning Network, a teacher's companion guide packed with practical advice from teachers, Times editors, and even student winners about how to use these essays in writing instruction.

envision math geometry student edition: Student Voice Teacher's Special: 100 Teen Essays + 35 Ways to Teach Argument Writing: from The New York Times Learning Network Katherine Schulten, 2020-10-14 Help your students craft convincing arguments with award-winning mentor texts written by teenagers and companion teaching guide. This bundle includes one copy each of *Student Voice: 100 Argument Essays by Teens on Issues That Matter to Them* and *Raising Student Voice: 35 Ways to Help Students Write Better Argument Essays*, from The New York Times Learning Network. At a time when examples of “student voice” are everywhere, from Greta Thunberg to the Parkland students to the teenagers in the streets of Hong Kong, the argument writing that students study in school is still almost entirely written by adults. It is a wholly different experience for teenagers to study the work of their peers. It’s relatable. It’s relevant. And it doesn’t feel like an untouchable ideal. In this new collection of 100 essays curated by The New York Times, students will find mentor texts written by their peers—13-18-year olds—on a wide range of topics including social media, race, school lockdown drills, immigration, tackle football, the #MeToo movement, and COVID-19. For any teacher who feels that students write better when they have some choice over the topic and form, when they write for an audience beyond the teacher and a purpose beyond a grade, and when they get to sound like themselves, this anthology is an invaluable resource to accompany any composition text. In the companion teacher’s guide, Katherine Schulten—a former teacher and writing coach herself—provides teachers with 35 strategies and classroom-ready activities for using these peer mentor texts with their students. *Raising Student Voice* also includes 500 writing prompts, a “topic generator” with questions to help students decide what they’d like to write about, and a sample essay annotated with the comments of Times judges.

envision math geometry student edition: The Development of Teaching Expertise from an International Perspective Su Liang, 2013-06-01 This book provides an insightful view of effective teaching practices in China from an international perspective by examining the grades 7-12 mathematics teacher preparation in the Shandong province of China. It is an excellent reference book for teacher educators, researchers, reformers, and teaching practitioners. A qualitative research approach, involving in-depth interviews with purposive sampling of ten grades 7-12 award-winning mathematics teachers, was chosen to conduct the study. The participants are from the Shandong province and have been awarded recognition for his/her achievements in teaching grades 7-12 mathematics by the different levels: school, district, city, province, or nation; and his/her students have achieved high average scores in college entrance exams or in high school entrance exams among the classes at the same grade level. Data analysis revealed the following findings: first, grades 7-12 mathematics teachers from the Shandong province of China were prepared to teach through pre-service training, in-service training, and informal learning. The pre-service training can be characterized as emphasizing formal mathematics training at advanced level. The in-service training is integrated with teacher collaboration and teaching research, and has the characteristics of diversity, continuity, and orientation toward teaching practice. The in-service training also stimulates teachers to conduct self-directed learning. Second, the award-winning grades 7-12 mathematics teachers are identified by the following characteristics: they are passionate about mathematics and share their passion through teaching; they actively take part in teaching research through application of teaching research in the classroom, collaboration with peers, and systematic lesson preparation; they apply technology into teaching; and they take an

active role in teaching research in order to expand their professional opportunities. Based on the findings of this study, the following conclusions were reached: pre-service training and in-service training are both necessary processes for mathematics teachers to build up their knowledge base for effective teaching. Pre-service training is just a starting point for the teaching profession. In-service training, integrated with teacher collaboration and teaching research should be a continuous activity that is a part of a teacher's everyday life.

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envision math geometry student edition: *Healing Presence* JoEllen Goertz Koerner, 2007-05-14 An invitation for all nurses to re-engage with the passion and commitment that originally inspired them! ...represents an act of passion for the profession, a window to a personal journey, and an invitation to view the nursing profession's contribution to healing in a Jungian context....The work's value comes from its integration of scientific, creative, and spiritual philosophies as a core context for the complex nurse-patient interaction involved in the promotion of a healing environment....Recommended.--Choice Nursing is at a crossroads, facing shortages of unparalleled proportion at a time when society is experiencing health care challenges of great magnitude. At the center of professional nursing lies the authentic presence of the nurse, the intention and commitment that brings nurses to the profession in the first place. When there is congruence between who nurses are and what they do, nurses bring their souls to work. This balance is experienced as a healing presence that encourages the patient's self-healing capacity. Throughout this book, JoEllen Koerner explores ways--scientific, creative, and spiritual--of understanding the power and impact of this healing presence on both the caregiver and those receiving care. Wisdom from the field is presented in a series of reflections from multiple areas of practice. For all nurses and nursing students, the book offers practical application strategies for integrating the nursing process with the nurse's presence and a framework for personal and professional development.

envision math geometry student edition: *Reason and Persuasion* John Holbo, 2016-01-09 Three complete Plato dialogues - Euthyphro, Meno, Republic Book I - in a fresh English translation, with extensive commentary and original illustrations. Reason and Persuasion is suitable as an introductory textbook or for more advanced students of Plato and philosophy. The fourth edition is substantially revised, extended and improved. There is no dearth of textbooks offering an introduction to Plato's thought, but Holbo's stands apart in the scope of its introductory material and its user-friendly style ... The colloquial yet accurate translation by Belle Waring serves to reduce the distance between the student and the world of the dialogues ... Holbo's commentaries on these three dialogues serve to situate them both as individual works and also as parts of Plato's overall project of showing the problems of persuasion divorced from reason. Rather than taking a strictly scholarly approach the author has made clear the relevance of these texts for questions even non-philosophers should find worth asking. For instructors seeking an introductory text for first time readers of Plato, Holbo's book is worthy of consideration. Notre Dame Philosophical Reviews (review of the 3rd edition)

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envision math geometry student edition: *Lectures and Problems: A Gift to Young Mathematicians* V. I. Arnold, 2015-11-30 Vladimir Arnold (1937-2010) was one of the great mathematical minds of the late 20th century. He did significant work in many areas of the field. On another level, he was keeping with a strong tradition in Russian mathematics to write for and to directly teach younger students interested in mathematics. This book contains some examples of Arnold's contributions to the genre. Continued Fractions takes a common enrichment topic in high school math and pulls it in directions that only a master of mathematics could envision. Euler Groups treats a similar enrichment topic, but it is rarely treated with the depth and imagination lavished on it in Arnold's text. He sets it in a mathematical context, bringing to bear numerous tools of the trade and expanding the topic way beyond its usual treatment. In Complex Numbers the context is physics, yet Arnold artfully extracts the mathematical aspects of the discussion in a way that

students can understand long before they master the field of quantum mechanics. Problems for Children 5 to 15 Years Old must be read as a collection of the author's favorite intellectual morsels. Many are not original, but all are worth thinking about, and each requires the solver to think out of his or her box. Dmitry Fuchs, a long-term friend and collaborator of Arnold, provided solutions to some of the problems. Readers are of course invited to select their own favorites and construct their own favorite solutions. In reading these essays, one has the sensation of walking along a path that is found to ascend a mountain peak and then being shown a vista whose existence one could never suspect from the ground. Arnold's style of exposition is unforgiving. The reader--even a professional mathematician--will find paragraphs that require hours of thought to unscramble, and he or she must have patience with the ellipses of thought and the leaps of reason. These are all part of Arnold's intent. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.

envision math geometry student edition: Eastern European Mathematics Education in the Decades of Change Alexander Karp, 2020-05-04 This contributed volume is devoted to the recent history and evolution of mathematics education in Eastern Europe, exploring how it was influenced by social and political changes in this part of the world. Despite the broad recognition of the importance of these changes, little scholarship exists that examines the ways in which they were followed by changes in the teaching of mathematics in the post-socialist countries. Indeed, the analyzed processes are complex and vary across the states. Accordingly, this book touches on many factors--including differences in cultures and traditions -- that find expression in the teaching of mathematics. Specifically, this volume seeks to explore what changes there were in education in general and in the position of mathematics in school education in these years, and how these changes may be explained and documented; what changes there were in the content of mathematics education and its assessment, and how were they motivated and adopted; what new textbooks appeared and what new methodological ideas were offered in them; how and why mathematics teacher education and/or professional development changed; what was the role (if any) of foreign influences on mathematics education, etc. The book will be of interest to both researchers in mathematics education and practitioners--teachers, as well as a broader audience of historians and educators exploring the political aspects of education.

envision math geometry student edition: Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present. It aims to synthesize what is known and what has unfolded so far, as well as to explore directions in which the study of the philosophy of mathematics, as evident in increasingly diverse mathematical practices, is headed. Each section offers insights into the origins, debates, methodologies, and newer perspectives that characterize the discipline today. Contributions are written by scholars from mathematics, history, and philosophy -- as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today -- who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy. Editorial Advisory Board Andrew Aberdein, Florida Institute of Technology, USA Jody Azzouni, Tufts University, USA Otávio Bueno, University of Miami, USA William Byers, Concordia University, Canada Carlo Cellucci, Sapienza University of Rome, Italy Chandler Davis, University of Toronto, Canada (1926-2022) Paul Ernest, University of Exeter, UK Michele Friend, George Washington University, USA Reuben Hersh, University of New Mexico, USA (1927-2020) Kyeong-Hwa Lee, Seoul National University, South Korea Yuri Manin, Max Planck Institute for Mathematics, Germany (1937-2023) Athanase Papadopoulos, University of Strasbourg, France Ulf Persson, Chalmers University of Technology, Sweden John Stillwell, University of San Francisco, USA David Tall, University of Warwick, UK (1941-2024) This book with its exciting depth and breadth, illuminates us about the history, practice, and the very language of our subject; about

the role of abstraction, of proof and manners of proof; about the interplay of fundamental intuitions; about algebraic thought in contrast to geometric thought. The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover---from deep platonic and neoplatonic influences to the most current experimental approaches. Enriched, as well, with vivid biographies and brilliant personal essays written by (and about) people who play an important role in our tradition, this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis, Reuben Hersh, and Yuri Manin. ---Barry Mazur, Gerhard Gade University Professor, Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics. Whether one is interested in individuals (from Pythagoras through Newton and Leibniz to Grothendieck), fields (geometry, algebra, number theory, logic, probability, analysis), viewpoints (from Platonism to Intuitionism), or methods (proof, experiment, computer assistance), the reader will find a multitude of chapters that inform and fascinate. ---John Stillwell, Emeritus Professor of Mathematics, University of San Francisco; Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians - Chandler Davis, Reuben Hersh, and Yuri Manin -, who went out of their way to show to a broader audience that mathematics is more than what they might think, is an excellent initiative. Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor-in-chief. The result: a great source of potential inspiration! ---Jean-Pierre Bourguignon; Nicolaas Kuiper Honorary Professor at the Institut des Hautes Études Scientifiques

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