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Beautifully
rendered,
imaginative new
geometrical
designs. 46
designs.
Both a reference
and an
introduction on the

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main results about
topological
geometries on
surfaces.

An exquisite visual
celebration of the
2,500-year history
of geometry If
you've ever
thought that
mathematics and
art don't mix, this
stunning visual

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history of
geometry will
change your mind.
As much a work of
art as a book
about
mathematics,
Beautiful
Geometry presents
more than sixty
exquisite color
plates illustrating a
wide range of

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geometric patterns
and theorems,
accompanied by
brief accounts of
the fascinating
history and people
behind each. With
artwork by Swiss
artist Eugen Jost
and text by math
historian Eli Maor,
this unique
celebration of

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geometry covers numerous subjects, from straightedge-and-compass constructions to intriguing configurations involving infinity. The result is a delightful and informative illustrated tour

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through the
2,500-year-old
history of one of
the most important
branches of
mathematics.

In this profound
and hopeful book,
a mathematician
and celebrated
teacher shows
how mathematics
may help all of

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us—even the math-averse—to understand and cope with grief. We all know the euphoria of intellectual epiphany—the thrill of sudden understanding. But coupled with that excitement is a sense of loss: a

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moment of
epiphany can
never be repeated.
In *Geometry of
Grief*,
mathematician
Michael Frame
draws on a
career's worth of
insight—including
his work with
pioneer of fractal
geometry Benoit

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Mandelbrot—and a gift for rendering the complex accessible as he delves into this twinning of understanding and loss. Grief, Frame reveals, can be a moment of possibility. Frame investigates grief as a response to

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an irrevocable change in circumstance. This reframing allows us to see parallels between the loss of a loved one or a career and the loss of the elation of first understanding a tricky concept. From this foundation, Frame

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builds a geometric model of mental states. An object that is fractal, for example, has symmetry of magnification: magnify a picture of a mountain or a fern leaf—both fractal—and we see echoes of the original shape.

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Similarly, nested inside great loss are smaller losses. By manipulating this geometry, Frame shows us, we may be able to redirect our thinking in ways that help reduce our pain.

Small?scale losses, in essence,

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provide

laboratories to
learn how to meet
large-scale losses.

Interweaving
original

illustrations, clear
introductions to
advanced topics in
geometry, and
wisdom gleaned
from his own
experience with

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illness and others' remarkable responses to devastating loss, Frame's poetic book is a journey through the beautiful complexities of mathematics and life. With both human sympathy and geometrical

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elegance, it helps us to see how a geometry of grief can open a pathway for bold action.

The Book Bandit

Advanced

Euclidean

Geometry

Geometry

Geometry

Workbook for 2nd

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Grade - Math

Workbooks

Children's

Geometry Books

Me on the Map

A hands-on

introduction to

polygons that

takes the fear out

of math and puts

the fun back in!

Draw three dots

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on a piece of
paper. Or maybe--
draw three dots
on a slice of
cheese. What
happens when
you connect the
dots? With bright,
colorful
illustrations and a
simple, funny text,
Shape Up!

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introduces
triangles,
quadrangles, and
other polygons to
young readers,
encouraging them
to play along, and
learn everything
there is to know
about shapes.
Explaining basic
geometric

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concepts and
offering
definitions for
important
vocabulary, this
introduction to
shapes, lines, and
angles is too good
to miss-- even if
the jokes can be a
little . . . cheesy.

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respected
children's
nonfiction author
and former math
teacher, this is a
perfect grounding
in basic shapes--
and a lot of fun,
too.

Elementary
geometry
provides the

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foundation of
modern geometry.
For the most part,
the standard
introductions end
at the formal
Euclidean
geometry of high
school. Agricola
and Friedrich
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but from the

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higher viewpoint
of university
mathematics.

Plane geometry is
developed from its
basic objects and
their properties
and then moves to
conics and basic
solids, including
the Platonic solids
and a proof of

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Euler's polytope formula.

Particular care is taken to explain symmetry groups, including the description of ornaments and the classification of isometries by their number of fixed points.

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Complex numbers are introduced to provide an alternative, very elegant approach to plane geometry. The authors then treat spherical and hyperbolic geometries, with special emphasis

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on their basic
geometric
properties. This
largely self-
contained book
provides a much
deeper
understanding of
familiar topics, as
well as an
introduction to
new topics that

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complete the picture of two-dimensional geometries. For undergraduate mathematics students the book will be an excellent introduction to an advanced point of view on geometry.

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For mathematics teachers it will be a valuable reference and a source book for topics for projects. The book contains over 100 figures and scores of exercises. It is suitable for a one-semester course

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in geometry for
undergraduates,
particularly for
mathematics
majors and future
secondary school
teachers.

Have you ever
wondered how to
measure your
pizza or how
much ice cream is

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in your ice-cream
cone? Basic
principles of
geometry,
including
measuring two-
dimensional and
three-dimensional
shapes, attributes
of various shapes,
formulas for
finding area and

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volume, and so much more, are explored through diagrams, photos, and informative and engaging text in this newest addition to the How Do series. About the How Do series: These fully-illustrated

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nonfiction picture books are a great introduction to various STEM topics. Each title includes facts and figures, simple diagrams and hilarious illustrations and is written in a question-and-answer

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Simple text and colorful photos make learning

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important

concepts easy.

Familiar two- and
three-dimensional

geometric shapes

and their

properties from

home and school

are used to

introduce children

to symmetry and

asymmetry, lines

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of symmetry, and
congruence.
Geometries on
Surfaces
Proof in Geometry
Dandy Decimals
Tangled
With "Mistakes in
Geometric Proofs"
Across the Islamic
world, illuminating
Korans from Morocco

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to Malaysia, and
adorning mosques,
mausoleums and
palaces, are hidden
some of the most
exquisite geometrical
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this excellent little
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Sutton unravels the
mystery of Islamic
patterns, explaining
where they come

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Study the subtle art of mathematical domino tumbling, and find out how slicing cones helped save a city and put a man on the moon.

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everybody's favorite
geometries such as
configurations,
projective planes and
spaces, circle planes,
generalized polygons,
mathematical
biplanes and other
designs which capture
much of the beauty,
construction
principles,

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interconnections of
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graduate students.
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just wants some
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and comprehensive
guided tour of small
finite geometries and
geometries on
surfaces This guided
tour includes lots of
sterograms of the
spatial models,
games and puzzles
and instructions on
how to construct your
own pictures and
build some of the
spatial models

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When Matt and Bibi are locked inside an Egyptian pyramid with only each other, their dog Riley, and geometric hieroglyphics, the twins must use their math knowledge to solve the riddles on the walls and locate the burial chamber.

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Shaped the World
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Euclid

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Geometry
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entertaining . . .

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reveals how geometric thinking can allow for everything from fairer American elections to better pandemic planning. □ □The New York Times From the New York Times- bestselling author of How Not to Be Wrong □himself a world-class geometer □a far-

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ranging exploration of
the power of
geometry, which turns
out to help us think
better about
practically everything.
How should a
democracy choose its
representatives? How
can you stop a
pandemic from
sweeping the world?
How do computers

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learn to play Go, and why is learning Go so much easier for them than learning to read a sentence? Can ancient Greek proportions predict the stock market? (Sorry, no.) What should your kids learn in school if they really want to learn to think? All these are questions about

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geometry. For real. If you're like most people, geometry is a sterile and dimly remembered exercise you gladly left behind in the dust of ninth grade, along with your braces and active romantic interest in pop singers. If you recall any of it, it's plodding through a

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series of miniscule steps only to prove some fact about triangles that was obvious to you in the first place. That's not geometry. Okay, it is geometry, but only a tiny part, which has as much to do with geometry in all its flush modern richness as conjugating a verb

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has to do with a great novel. Shape reveals the geometry underneath some of the most important scientific, political, and philosophical problems we face.

Geometry asks:

Where are things?

Which things are near each other? How can you get from one

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thing to another thing?

Those are important questions. The word "geometry" comes from the Greek for "measuring the world." If anything, that's an undersell.

Geometry doesn't just measure the world—it explains it. Shape shows us how.

From award-winning

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author Anne Miranda
comes a rollicking
rhyming story about
an unruly gang of
sixteen geometric
shapes who get
tangled in the
neighborhood jungle
gym until their friend
comes to their rescue
and order is restored.
Perfect for fans of
Chicka Chicka Boom

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Boom! One day a little circle, just as happy as could be, got caught inside a jungle gym, and couldn't wiggle free. When the neighborhood shapes go climbing on the park jungle gym the last thing they expect is a tangle. First the circle, next the triangle and then the

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square. One by one soon all sixteen shapes are trapped. They push and pull and tumble and cry for help. Who will save them? One special shape can set the others free. Can you guess which one it is? This charming story makes learning the names of sixteen

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shapes as easy as a
day in the park.

Baby's world is made
up of shapes of all
kinds and sizes! From
big circles to little
rectangles and
everything in
between-- explore the
basics of Geometry
with the even the
littlest learners in this
colorful board book.

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Digital geometry is about deriving geometric information from digital pictures. The field emerged from its mathematical roots some forty-years ago through work in computer-based imaging, and it is used today in many fields, such as digital image processing and

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analysis (with applications in medical imaging, pattern recognition, and robotics) and of course computer graphics. Digital Geometry is the first book to detail the concepts, algorithms, and practices of the discipline. This comprehensive text

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and reference provides an introduction to the mathematical foundations of digital geometry, some of which date back to ancient times, and also discusses the key processes involved, such as geometric algorithms as well as operations on pictures.

*A comprehensive

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text and reference

written by pioneers in
digital geometry,
image processing and
analysis, and
computer vision

*Provides a collection
of state-of-the-art
algorithms for a wide
variety of geometrical
picture analysis tasks,
including extracting
data from digital

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images and making
geometric
measurements on the
data *Includes
exercises, examples,
and references to
related or more
advanced work
Reflections on
Mathematics, Loss,
and Life
Big Book of
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and Illusions to Color
A Geometrical Picture
Book

A Mystery with
Geometry

Islamic Design

*How can one
visualize a curve
that fills the
entire plane or all
of space? Can a
polyhedron be
smoothly turned*

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inside out? What is the projective plane? What does four-dimensional space look like? Can soap bubbles exist that are not spherical? How can one better understand the structure of vortices and currents? In this

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experience
mathematics
from the visual
point of view,
discovering
fascinating and
never previously
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that offer
illustrative
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topic that may previously have seemed inaccessible. You will get to know mathematics from a totally new and colorful viewpoint.

*6th Grade
Geometry is not like a walk in the park. It comes*

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with its challenges and sometimes, these challenges might be too difficult on your child. So to facilitate better learning, provide as many hands-on exercises as possible. This book has plenty of age-

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appropriate activities for practice. Grab a copy today! The little wooden couple are happy in their building-block house—until it catches fire. The solution? They transform the house into a fire

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engine! But then there's so much water that they have to build a boat.... The very youngest can "read" this charming, wordless picture book all by themselves.

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*to explain the
basics of algebra
and geometry,
discussing such
concepts as
numbers, shapes,
equations,
relations,
functions, and
graphs.*

*Add, Subtract,
Multiply, and
Divide*

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Shape

Geometry of Grief

Beautiful

Geometry

Geometry in

Figures

Over 100 ingeniously
constructed designs
form dazzling optical
illusions and
geometric shapes,
offering ample
opportunities for

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imaginative and
inventive coloring.

This compilation
consists of 4 volumes
that are popular with
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This book is a

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collection of theorems and problems in classical Euclidean geometry formulated in figures. It is intended for advanced high school and undergraduate students, teachers and all who like classical geometry. This is second, extended edition. Dissatisfied with its

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shape, a triangle keeps asking the local shapeshifter to add more lines and angles until it doesn't know which side is up. This is a highly illustrated source book for two- and three-dimensional models of some of the most fundamental incidence geometrics.

Focusing on

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aesthetically pleasing images, the author conveys the beauty of the objects to the general mathematical and non-mathematical public. Over 500 pictures (50 in color) dominate the pages of this book, including 30 stereograms of spatial models of geometrics. How Do You Measure a Slice of Pizza?

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Shape Up!

Fun With Triangles
and Other Polygons
Elementary Geometry
Beauty in

Mathematical Proof

*Is there a secret
visual language all
around us? What's
so special about the
shape of the Great
Pyramid? Why is
there something so*

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sixty about circles?

*How many ways
can you tile the
plane? Lavishly
illustrated by the
author, this
enchanting small
introduction to one
of the oldest and
most widely-used
ancient traditions
on Earth will
forever change the*

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*way you look at a
triangle, arch,
window, fabric
repeat, ceramic
pattern, graphic
design, painting,
spiral or flower.*

WOODEN BOOKS
*are small but
packed with
information.*

"e;Fascinating"e;

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"e;Beautiful"e;

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and Artful"e; THE
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expanding"e;*

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This single-volume compilation of 2 books explores the construction of geometric proofs. It offers useful criteria for determining correctness and presents examples of faulty proofs that

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OBTUSE ANGLES -
Digital Geometry
Symmetry*

Decimals have

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never been more
fun to learn
about than in
this rhyming
text with step-
by-step
shortcuts on
mastering how to
add, subtract,
multiply, and
divide decimals.
Place value,
digits,
multiplying by

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powers of ten,
models, and
practice
exercises, all
with color-coded
answer keys are
just a fraction
of what will
help students
learn just how
dandy decimals
can be! This
book will allow
students to add,

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subtract,
multiply, and
divide decimals
to hundredths,
using concrete
models or
drawings and
strategies based
on place value,
properties of
operations,
and/or the
relationship
between addition

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and subtraction.
The science club
has created a
big "book
bandit"
sculpture in the
public library.
But how did they
get the
sculpture in
through the tiny
library window?
The librarians
offer a prize to

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whoever can figure out the puzzle. The kids from Sifu Faiza's Kung Fu School know they can win, but it will take all of their geometry skills plus some unexpected cooperation to size up . . .
The Book Bandit.

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Part One of this
comprehensive
treatment
develops
Euclidean and Bo-
lyai-
Lobachevskian
geometry on the
basis of a
Hilbert system,
and Part Two
explores
projective
geometry in much

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the same way.
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illustrated
biography of the
Greek
philosopher and
scientist
Eratosthenes,
who compiled the
first geography
book and
accurately
measured the

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circumference.

Changes, Changes

A Mathematical

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The Greedy

Triangle

The Librarian

Who Measured the

Earth

A Vector Space

Approach to

Geometry

A sweeping

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cultural history
of one of the
most influential
mathematical
books ever
written Euclid's
Elements of
Geometry is one
of the
fountainheads of
mathematics—a
nd of culture.

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Written around
300 BCE, it has
traveled widely
across the
centuries,
generating
countless new
ideas and
inspiring such
figures as Isaac
Newton,
Bertrand

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Russell,
Abraham
Lincoln, and
Albert Einstein.
Encounters with
Euclid tells the
story of this
incomparable
mathematical
masterpiece,
taking readers
from its origins

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in the ancient world to its continuing influence today. In this lively and informative book, Benjamin Wardhaugh explains how Euclid's text journeyed from antiquity to the

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Renaissance, introducing some of the many readers, copyists, and editors who left their mark on the Elements before handing it on. He shows how some read the book as a

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work of
philosophy,
while others
viewed it as a
practical guide
to life. He
examines the
many different
contexts in
which Euclid's
book and his
geometry were

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put to use, from
the Neoplatonic
school at Athens
and the artisans'
studios of
medieval
Baghdad to the
Jesuit mission in
China and the
workshops of
Restoration
London.

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Wardhaugh
shows how the
Elements
inspired ideas in
theology, art,
and music, and
how the book
has acquired
new relevance
to the strange
geometries of
dark matter and

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curved space.

Encounters with
Euclid traces
the life and
afterlives of one
of the most
remarkable
works of
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ever written,
revealing its
lasting role in

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search for order
and reason in an
unruly world.
For fans of the
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coordinate
geometry on
their mind, here
is the seventh
installment in

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this fun look at
math and
language. While
riding through
the forests of
Angleland,
cousins Per and
Radius realize
they are lost
and are
desperate for a
map to guide

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them home.

Soon they come
across a
mysterious
house in the
hills. Inside they
find a map to a
treasure
belonging to
Xaxon
Yellowbearyd,
the fiercest

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Viking warrior
of his time. Per
and Radius must
decode the
strange
numbered grid
on the map,
while trying to
steer clear of
the pack of
bungling
bandits who are

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on their tail.

Will they find
the treasure in
time? Cindy
Neuschwander
delivers yet
another
intriguing math
adventure
featuring the
well-known
characters of

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Per and Radius
in their quest
while learning
how coordinate
geometry
relates to
everyday life.

Wayne Geehan's
beautiful

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illustrations
offer a bit of
comic relief,
while also
clearly
demonstrating
the concepts
explored in the
story.

This stimulating
volume offers a
broad collection

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of the principles
of geometry and
trigonometry
and contains
colorful
diagrams to
bring
mathematical
principles to
life. Subjects
are enriched by
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mathematicians
and their ideas,
and the stories
are presented in
a very
comprehensible
way. Readers
investigate the
relationships of
points, lines,
surfaces, and

solids. They study construction methods for drawing figures, a wealth of facts about these figures, and above all, methods to prove the facts. They learn

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about triangle
measure for
circular motion,
sine and cosine,
tangent and
secant, and
trigonometric
functions that
are applied to
right triangles.
A fascinating
exploration of

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the correlation
between
geometry and
linear algebra,
this text
portrays the
former as a
subject better
understood by
the use and
development of
the latter rather

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than as an independent field. The treatment offers elementary explanations of the role of geometry in other branches of math and science — including

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physics,
analysis, and
group theory —
as well as its
value in
understanding
probability,
determinant
theory, and
function spaces.
Outstanding
features of this

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volume include
discussions of
systematic
geometric
motivations in
vector space
theory and
matrix theory;
the use of the
center of mass
in geometry,
with an

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introduction to
barycentric
coordinates;
axiomatic
development of
determinants in
a chapter
dealing with
area and
volume; and a
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the particle
problem.

Students and
other
mathematically
inclined readers
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this inquiry into
the interplay
between
geometry and
other areas

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offers an
enriched
appreciation of
both subjects.

Foundations of
Geometry

A Story About
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Geometry and
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Geometry of

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it is to find the places
they know and love
with help from a map.
Sir Cumference and the
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