

50

Mathematical Quotations

π

Mathematics is the
queen of the
sciences and number
theory is the
queen of
mathematics.

Carl Friedrich Gauss

 π

π

It is impossible
to be a
mathematician
without being
a poet in soul.

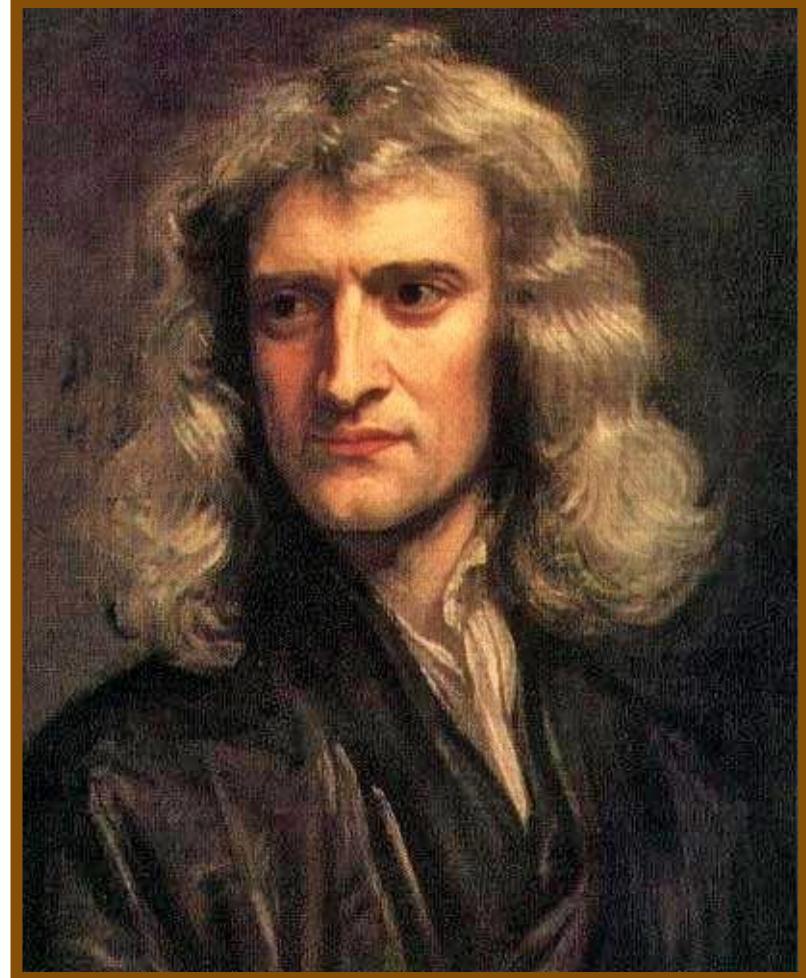
Sofia Kovalevskaya

 π

π

If I have been able
to see further,
it was only because
I stood on the
shoulders of giants.

Isaac Newton

 π

Only dead mathematics
can be taught where
the attitude of
competition prevails;
living mathematics
must always be a
communal possession.

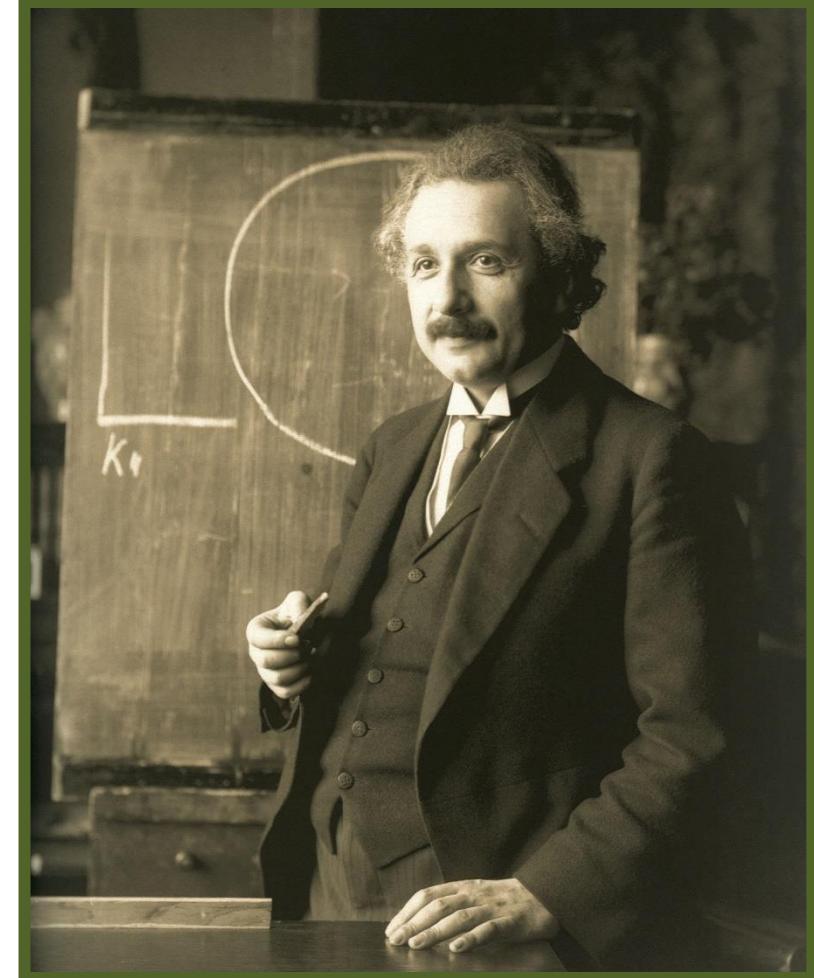
Mary Everest Boole



π

Do not worry about
your difficulties
in Mathematics.
I can assure you
mine are still
greater.

Albert Einstein



π

π

Reserve your
right to think,
for even to think
wrongly is better
than not to think
at all.

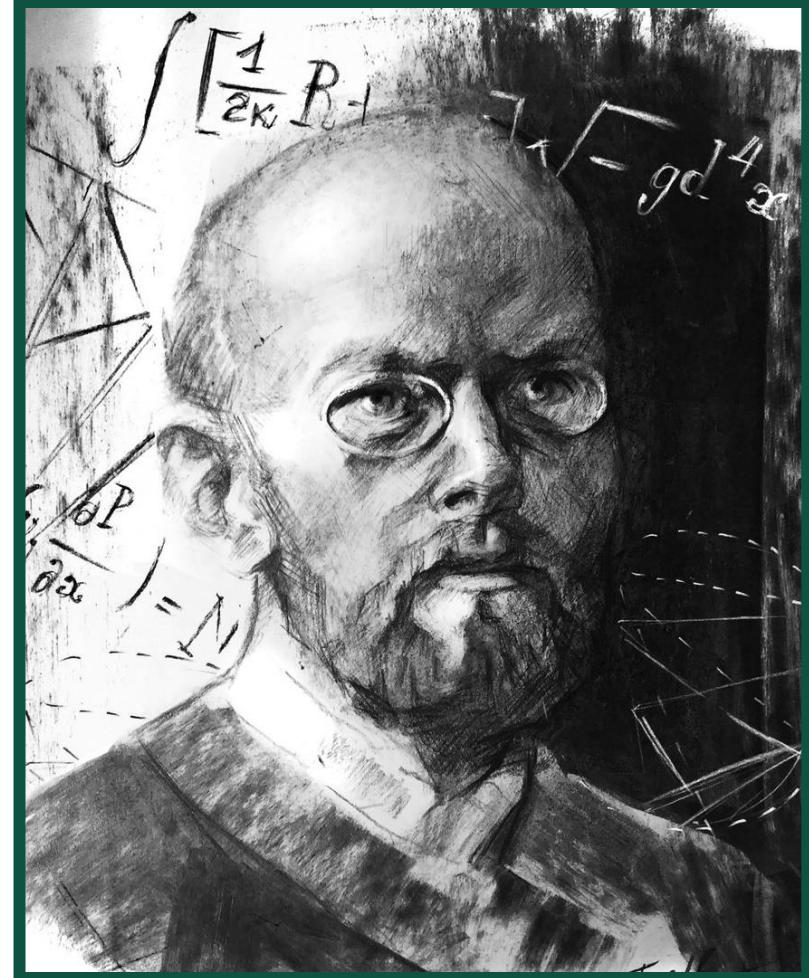
Hypatia of Alexandria

 π

π

That I have been
able to accomplish
anything in
mathematics is
really due to the fact
that I have always
found it so difficult.

David Hilbert



π

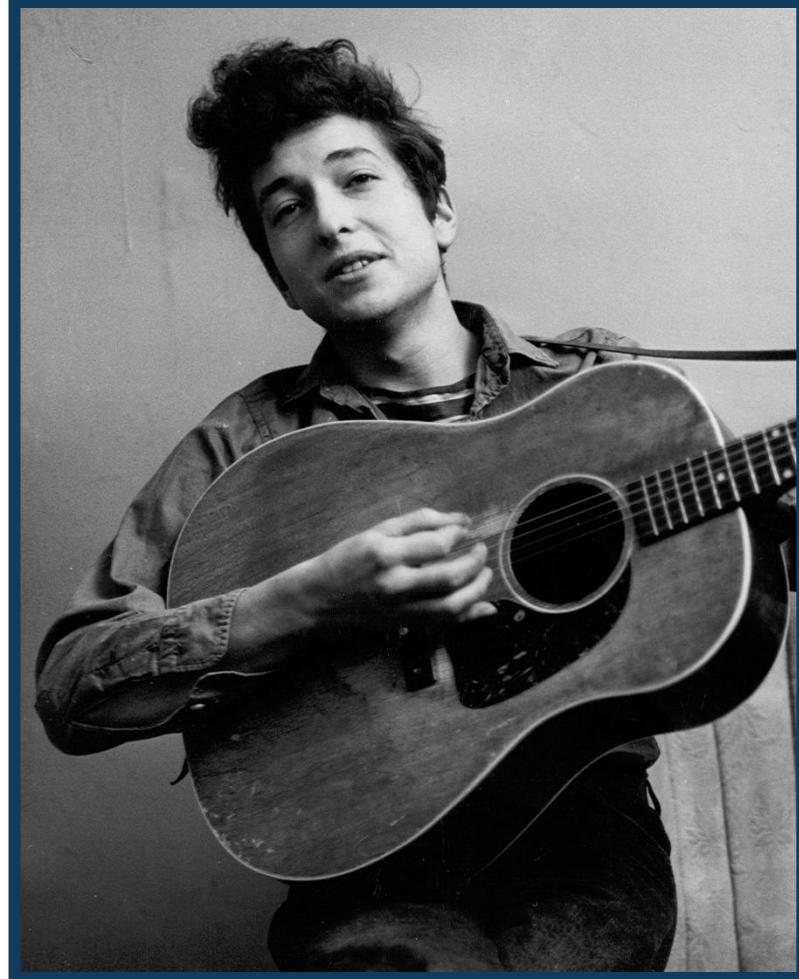
Your reward will be the widening of the horizon as you climb. And if you achieve that reward, you will ask no other.

Cecilia Payne-Gaposchkin



I wouldn't even think about playing music if I was born in these times, I'd probably turn to something like mathematics. That would interest me.

Bob Dylan



π

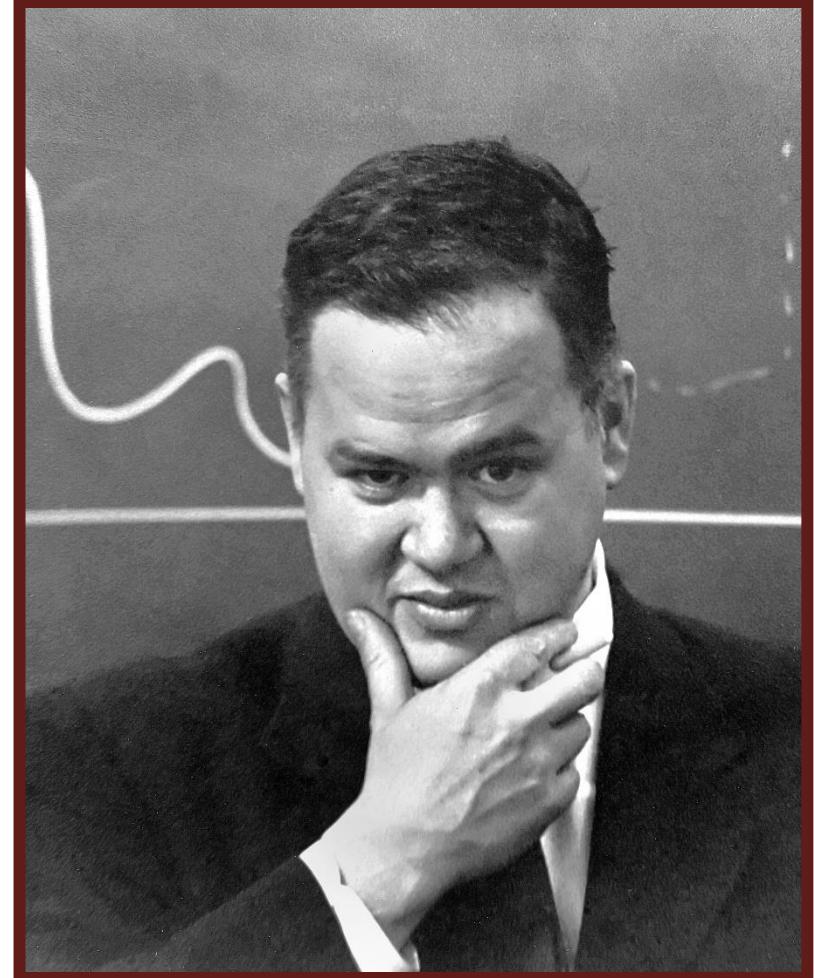
It's not only
the question,
but the way
you try to
solve it.

Maryam Mirzakhani

 π

There is no data
that can be
displayed in a pie
chart, that cannot
be displayed better
in some other type
of chart.

John Tukey



Some people think
maths is all about
getting the right
answers, when it's
actually about
asking the right
questions.

Eugenia Cheng



π

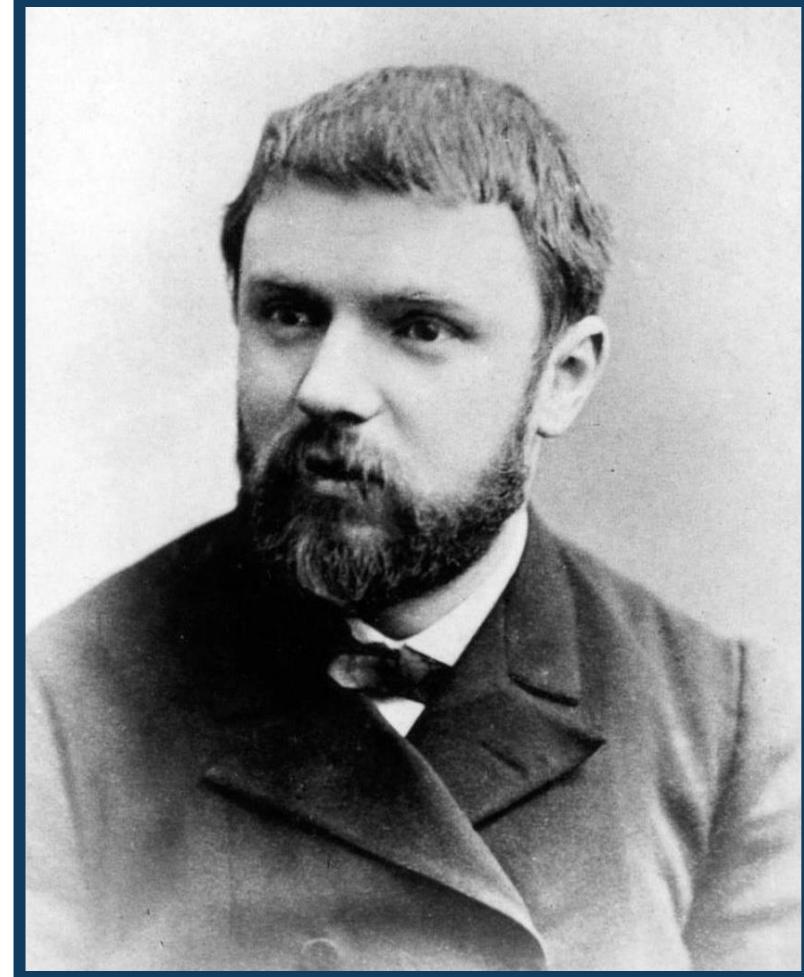
Maths is the
only place where
truth and
beauty mean the
same thing.

Danica McKellar

 π

It is by logic we prove, it is by intuition that we invent.

Henri Poincaré



What is beautiful in mathematics is that which makes abundantly clear to us that they are not something which we have manufactured ourselves. That thing is contradiction. ...The beauty of mathematics lies in contradiction.

Simone Weil



If I feel unhappy,
I do mathematics
to become happy.
If I am happy, I do
mathematics to
keep happy.

Alfred Rényi



Algebra is nothing
more than geometry,
in words.

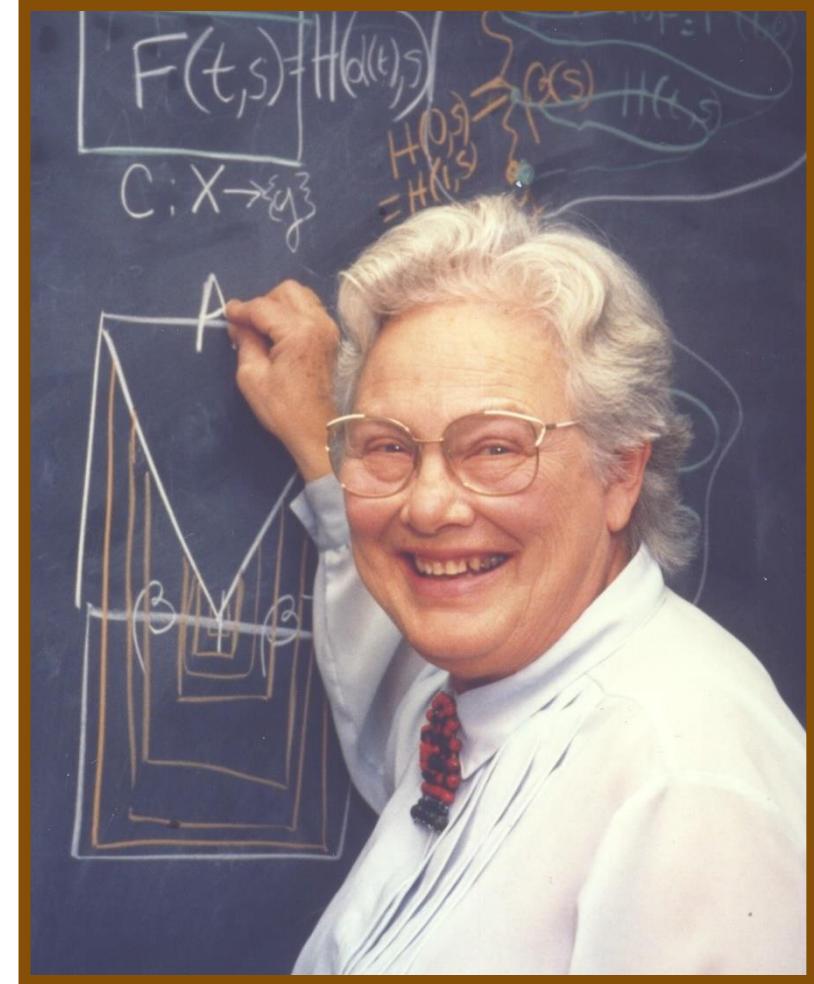
Geometry is nothing
more than algebra,
in pictures.

Sophie Germain



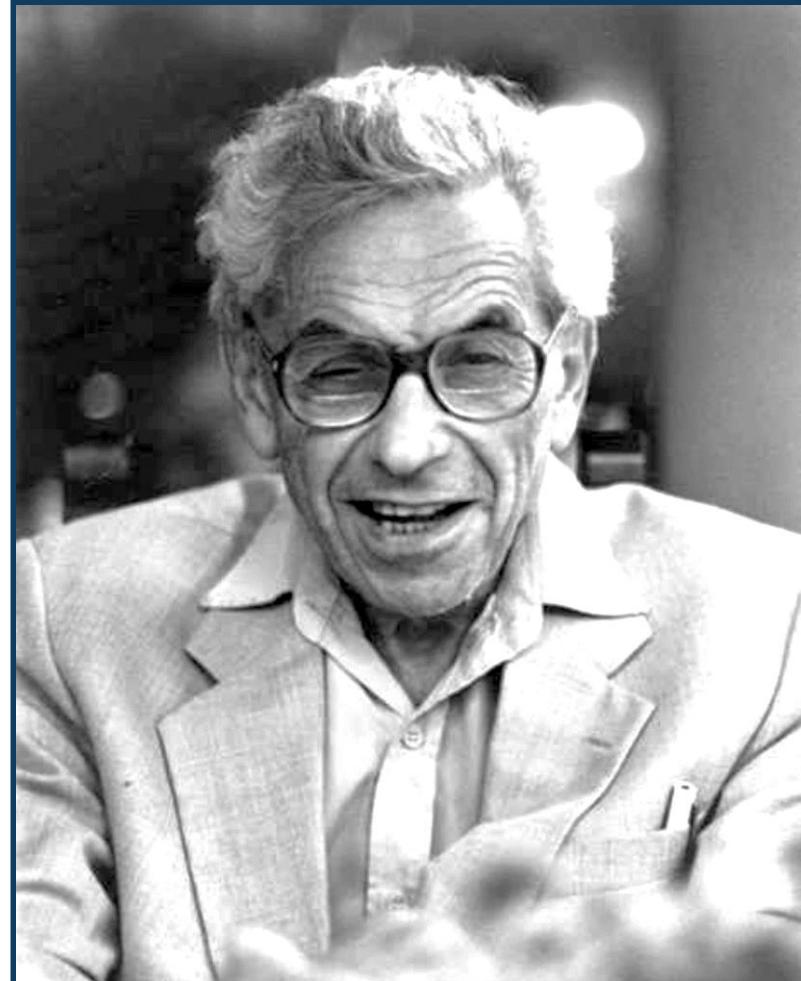
I draw little pictures and try this thing and that thing. I'm interested in how ideas fit together. Actually, I'm very geometric in my thinking. I'm not really interested in numbers.

Mary Ellen Rudin



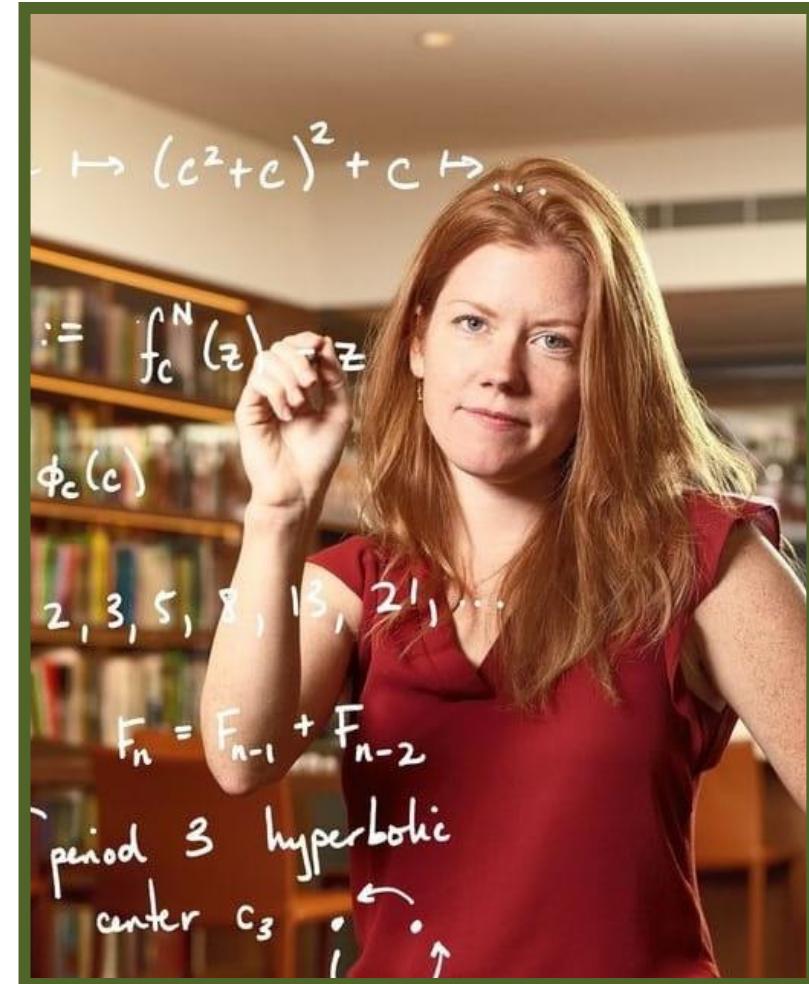
I rarely go
any place
where there
is no
mathematics.

Paul Erdős



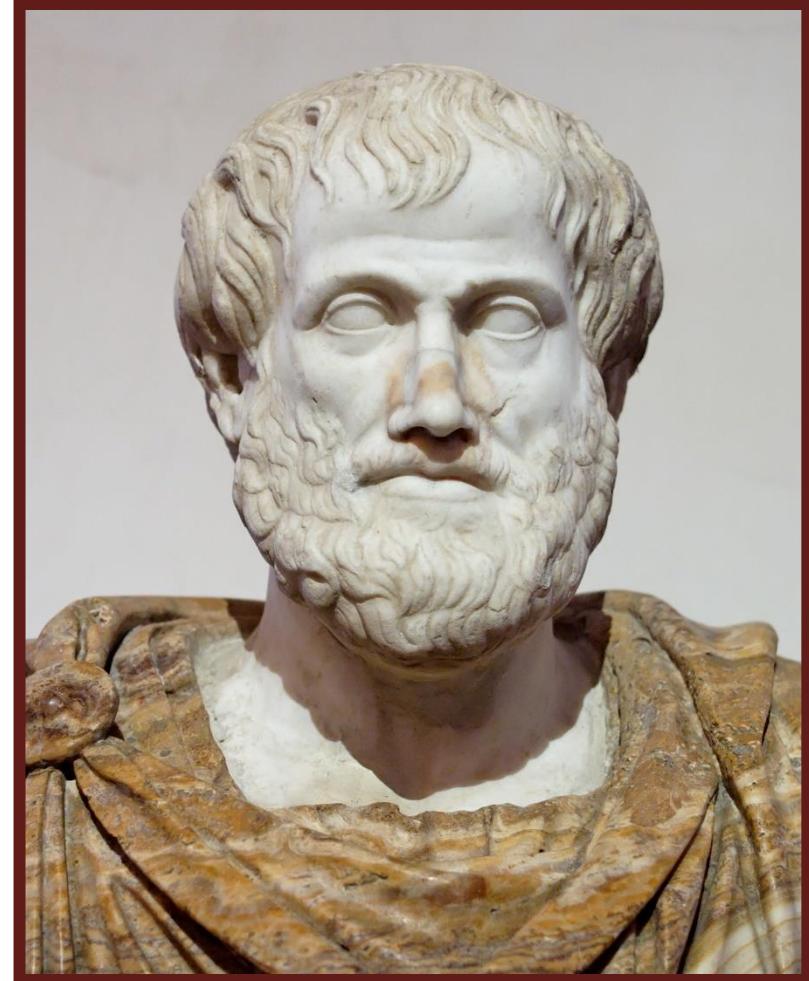
Just as learning the historical context of a painting or a novel can significantly and permanently change your perception of and personal attachment to it, learning mathematics changes the way you view nature, art, and music.

Holly Krieger



The qualities of numbers exist in a musical scale, in the heavens, and in many other things.

Aristotle



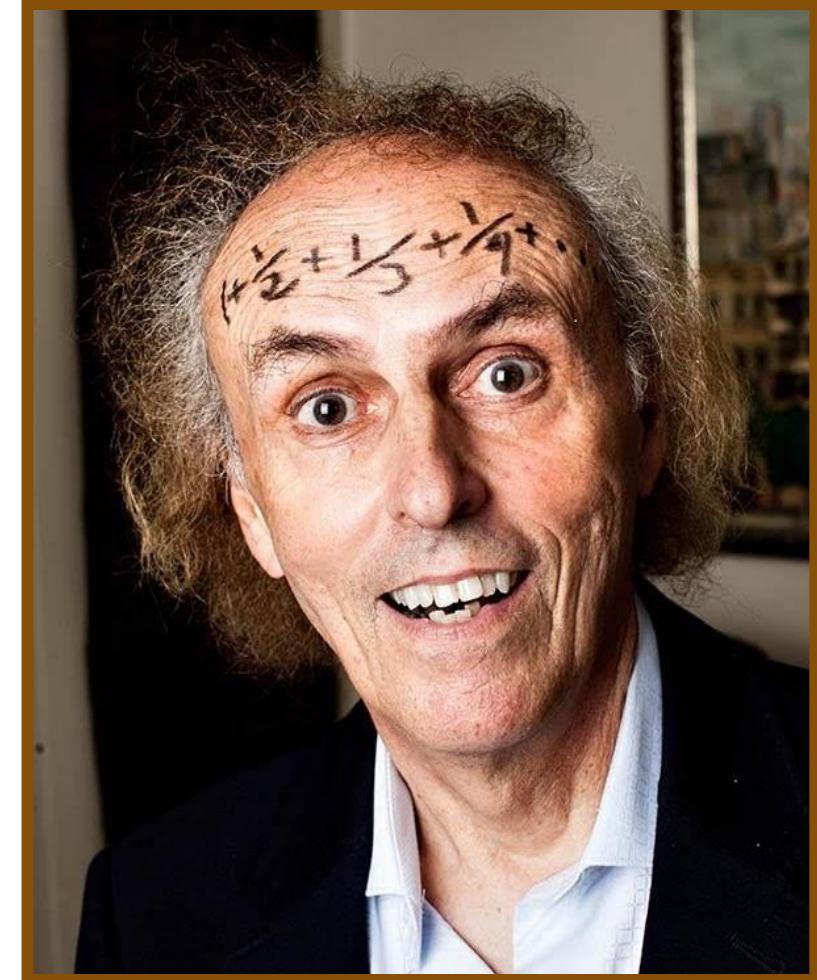
It matters little
who first arrives
at an idea, rather
what is significant
is how far that
idea can go.

Sophie Germain



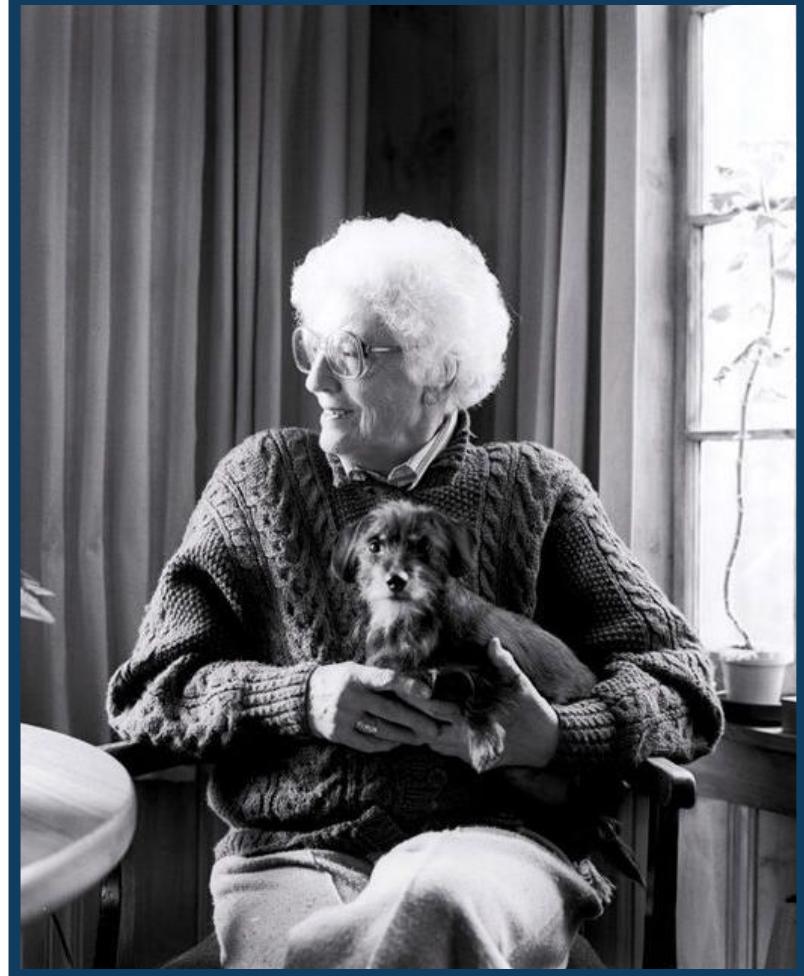
Mathematics is no
more computation
than typing is
literature.

John Allen Paulos



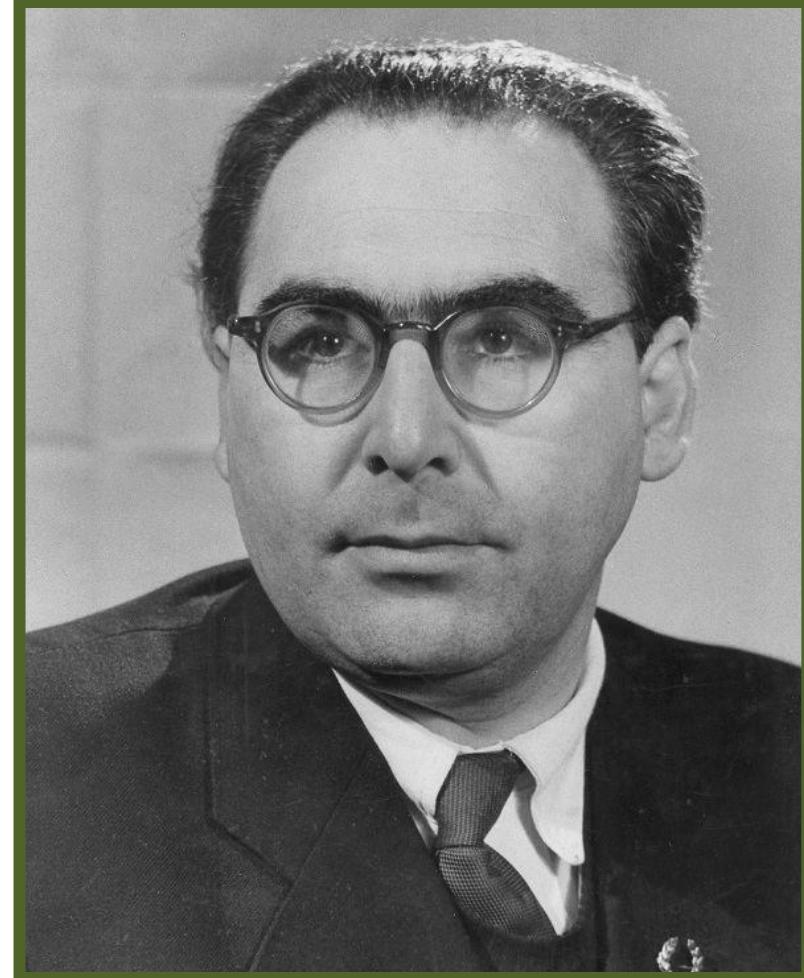
I see a certain
order in the
universe, and
maths is one
way of making
it visible.

May Sarton



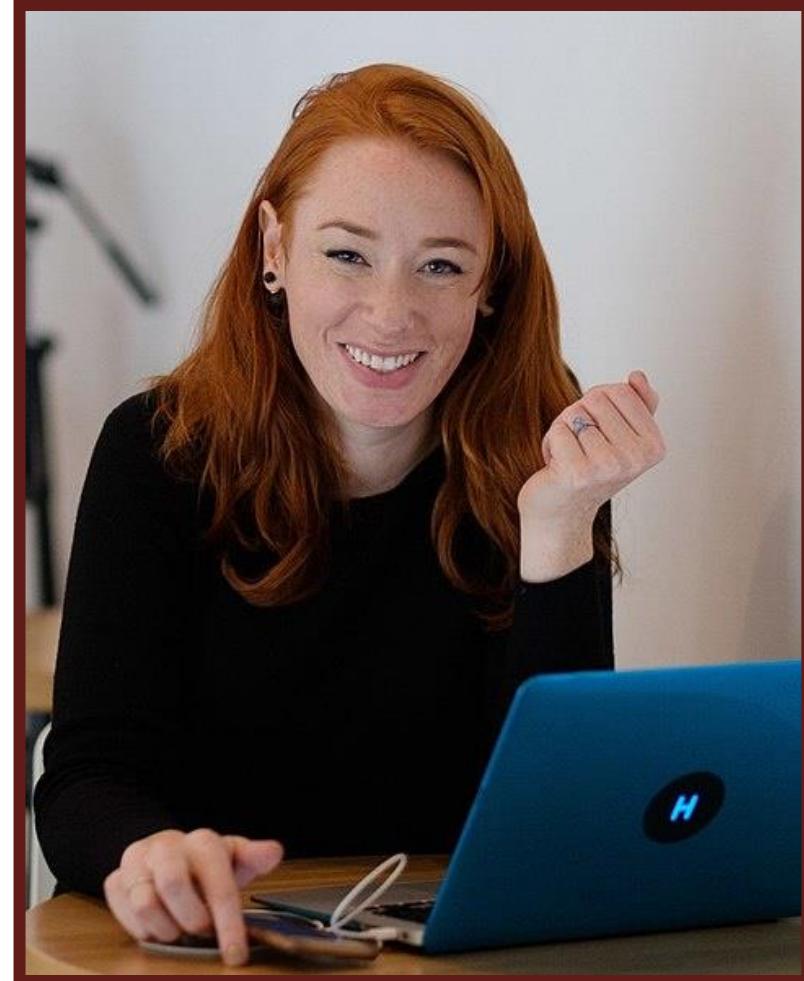
A mathematician
is a machine
for turning
coffee into
theorems.

Alfred Rényi



There's barely any aspect of our modern lives that hasn't had a mathematical contribution at some point; everything from politics to films, to everyday decision-making, to animals making football predictions.

Hannah Fry



Young man, in
Mathematics you
don't understand
things. You just
get used to them.

John von Neumann



π

The beauty of
mathematics only
shows itself to
more patient
followers.

Maryam Mirzakhani

 π

No human investigation can be called real science if it cannot be demonstrated mathematically.

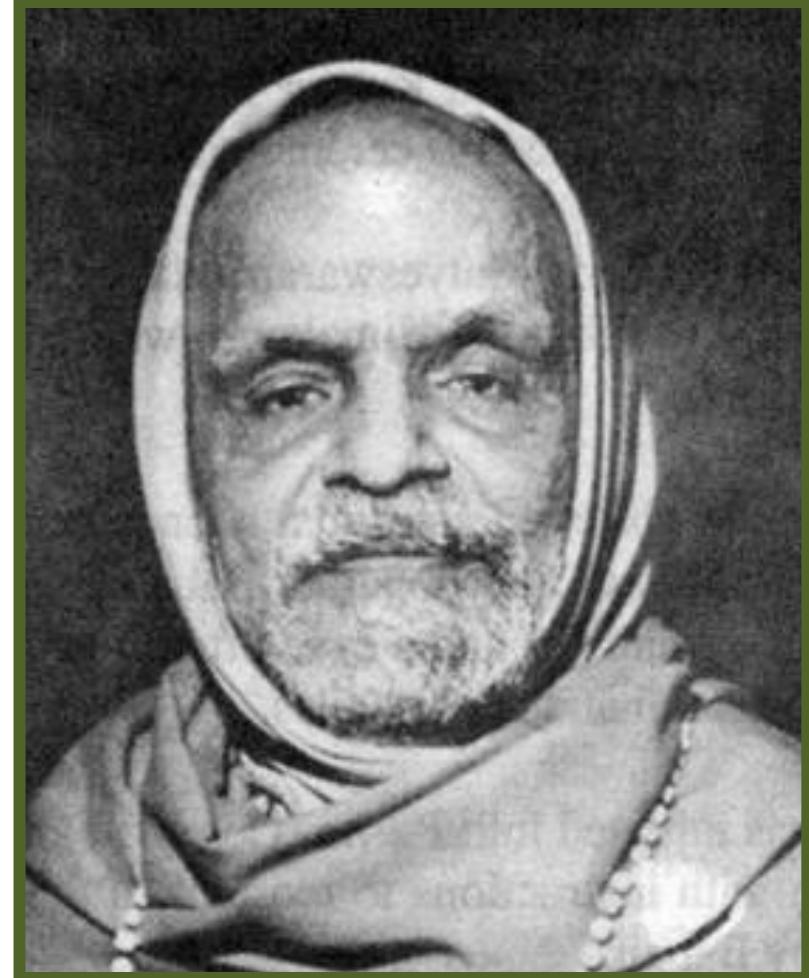
Leonardo da Vinci



π

It is magic
until you
understand it,
and mathematics
thereafter.

Bharati Krishna Tirtha

 π

Have you noticed
that the
astronomers and
mathematicians are
much the most
cheerful people of
the lot?

Dorothy L. Sayers



Reason is the slow
and tortuous
method by which
those who do not
understand the
truth discover it.

Blaise Pascal



Maths shows what is. It is the language of unseen relations between things. But to use and apply that language, we must be able to fully appreciate, to feel, to seize the unseen, the unconscious.

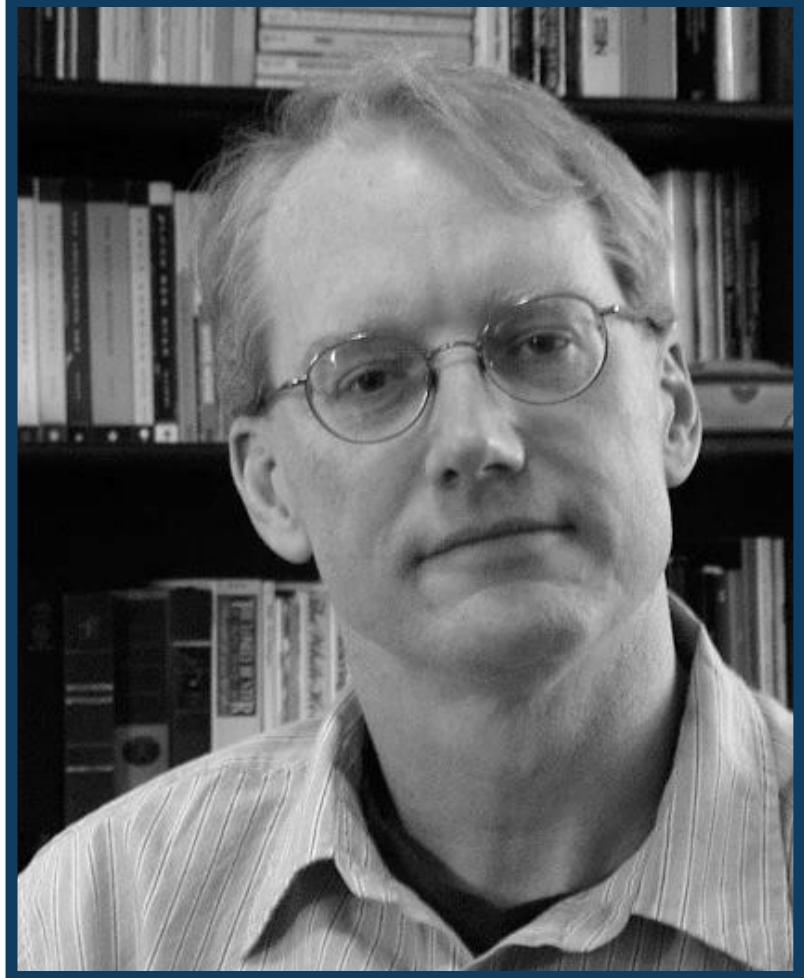
Ada Lovelace



There is nothing as dreamy
and poetic, nothing as
radical, subversive, and
psychedelic, as mathematics.

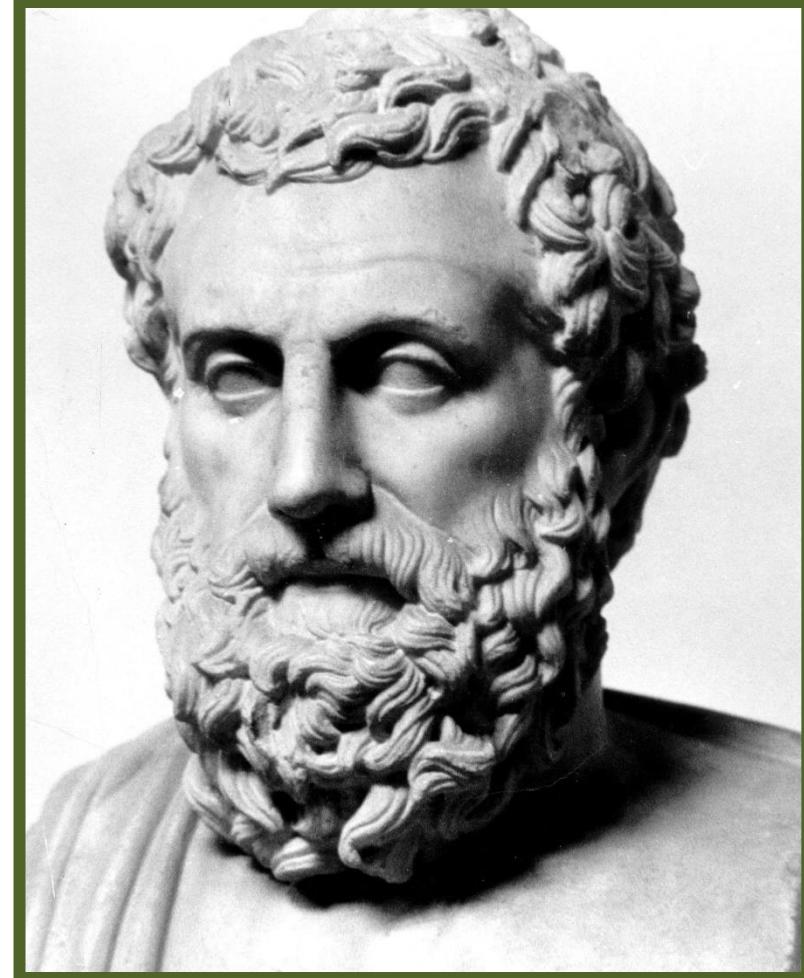
It is every bit as mind
blowing as cosmology or
physics and allows more
freedom of expression than
poetry, art, or music.

Paul Lockhart



To Thales the primary question was not 'What do we know?' but 'How do we know it?'

Aristotle



Statistical
thinking will one
day be as necessary
for efficient
citizenship as the
ability to read or
write.

H. G. Wells



π

Let's face it; by and large maths is not easy, but that's what makes it so rewarding when you conquer a problem and reach new heights of understanding.

Danica McKellar

 π

π

Imaginary numbers
are a fine and
wonderful refuge of
the divine spirit
almost an amphibian
between being and
non-being.

Gottfried Leibniz



π

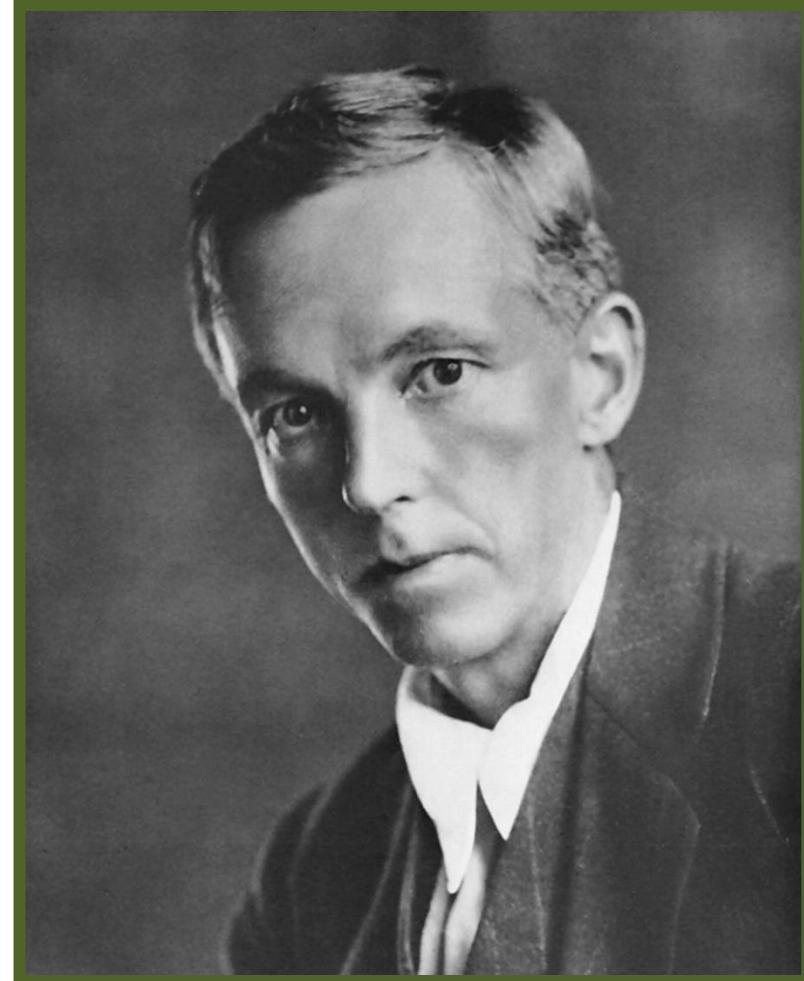
She had not understood mathematics until he explained to her that it was the symbolic language of relationships. "And relationships," he had told her, "contained the essential meaning of life."

Pearl S. Buck



Beauty is the
first test: there
is no permanent
place in the
world for ugly
mathematics.

G. H. Hardy



π

Some things will drop out of the public eye and go away, but there will always be science, engineering and technology.

And there will always, always be mathematics.

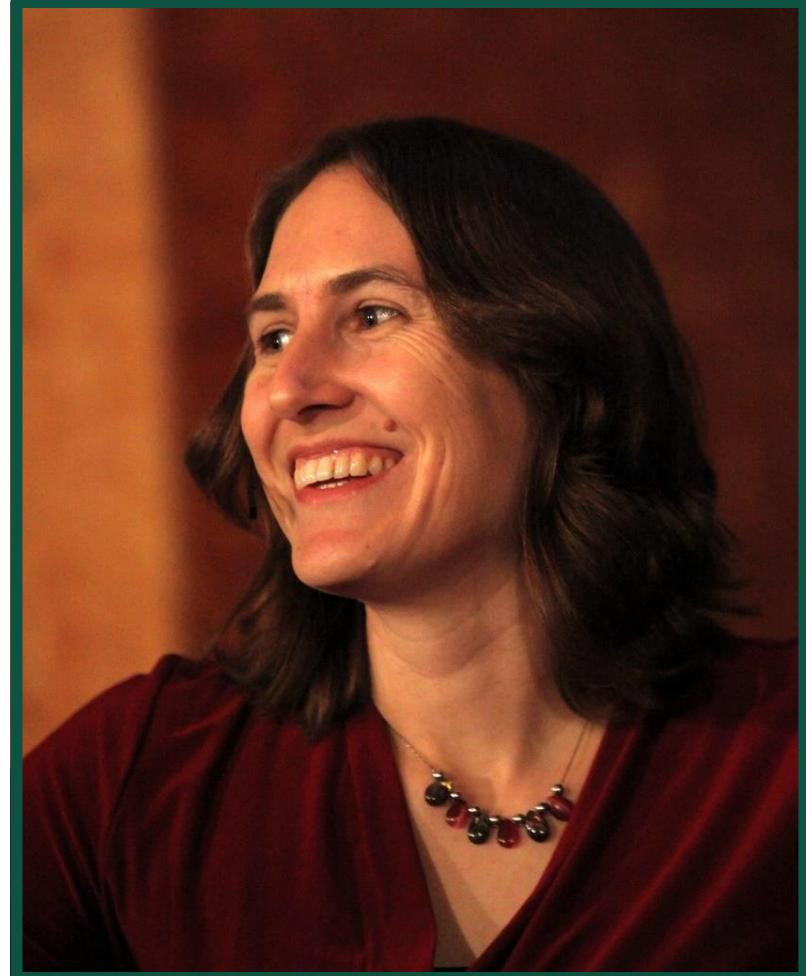
Katherine Johnson

 π

So far, all of reality
seems to be described by
exquisite, elegant
mathematical equations.

We can't stop now - it's
got to be beautiful all
the way down.

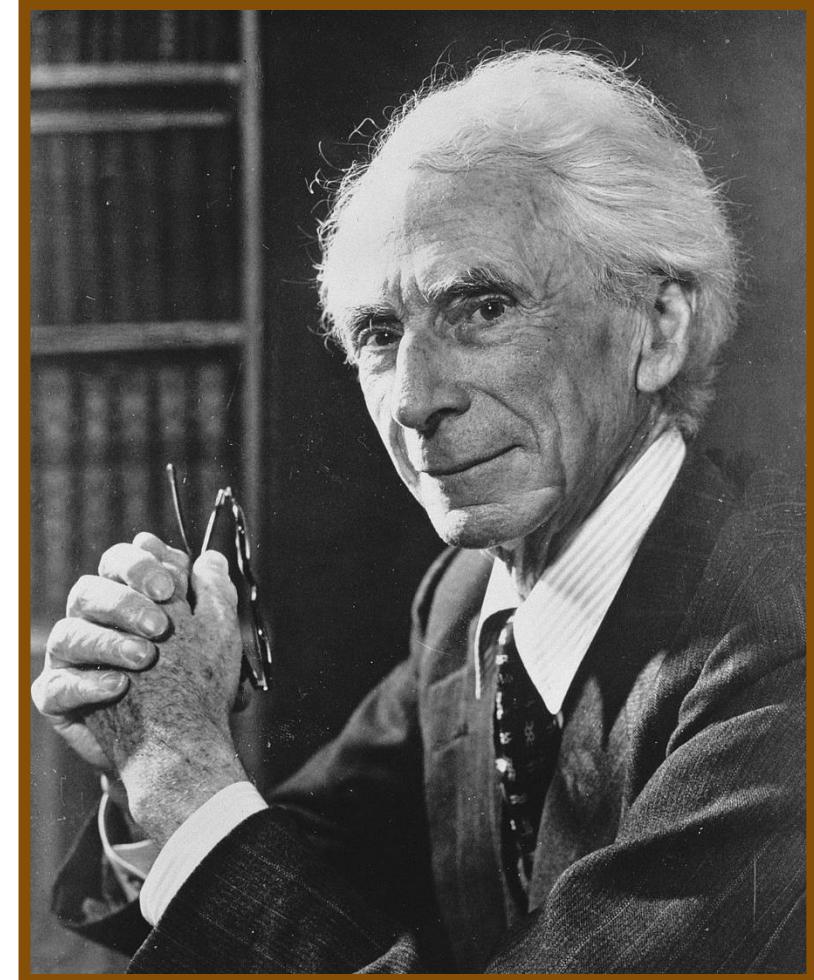
Katie Mack



π

The greatest challenge to any thinker is stating the problem in a way that will allow a solution.

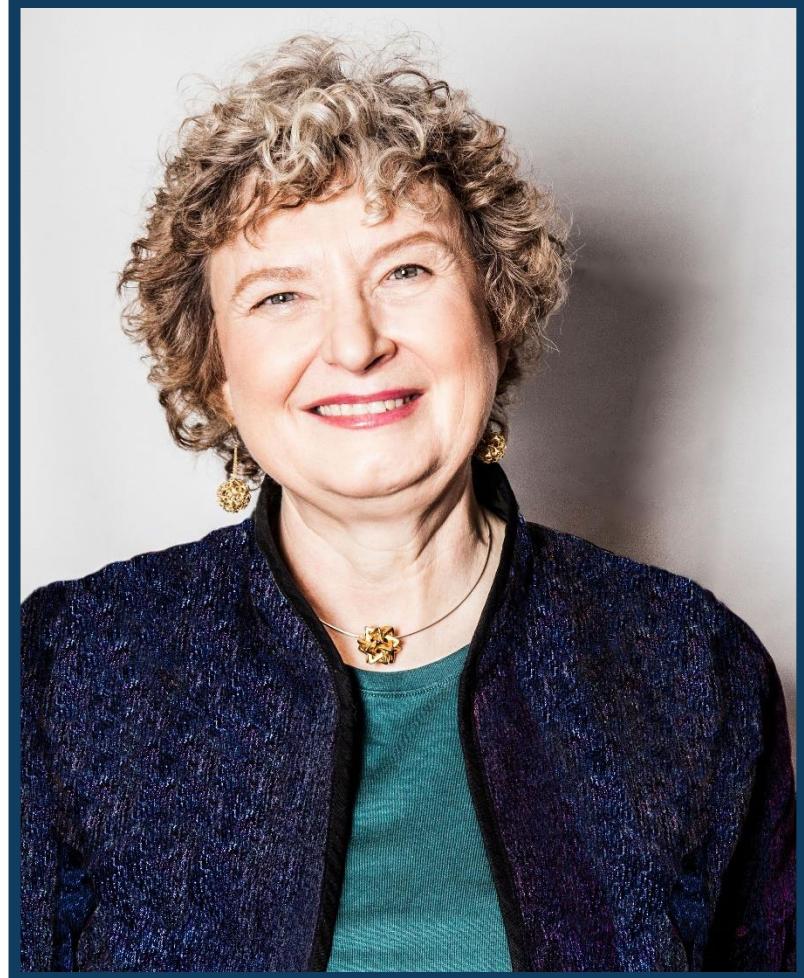
Bertrand Russell

 π

Think about what it means to find something beautiful. For me, it's feeling of joy, awe, and reverence. It gladdens the heart and lights up the eye.

Mathematics is beautiful as it elicits the same emotions in us. It is awe-inspiring and joy-inspiring at the same time.

Ingrid Daubechies



π

Where there is
matter, there
is geometry.

Johannes Kepler



π

Although I was first drawn to maths by the certainty it promised, today I find the unanswered questions and the unexpected connections at least as attractive.

Lisa Randall



In mathematics, the truth is somewhere out there in a place no one knows, beyond all the beaten paths. And it's not always at the top of the mountain. It might be in a crack on the smoothest cliff or somewhere deep in the valley.

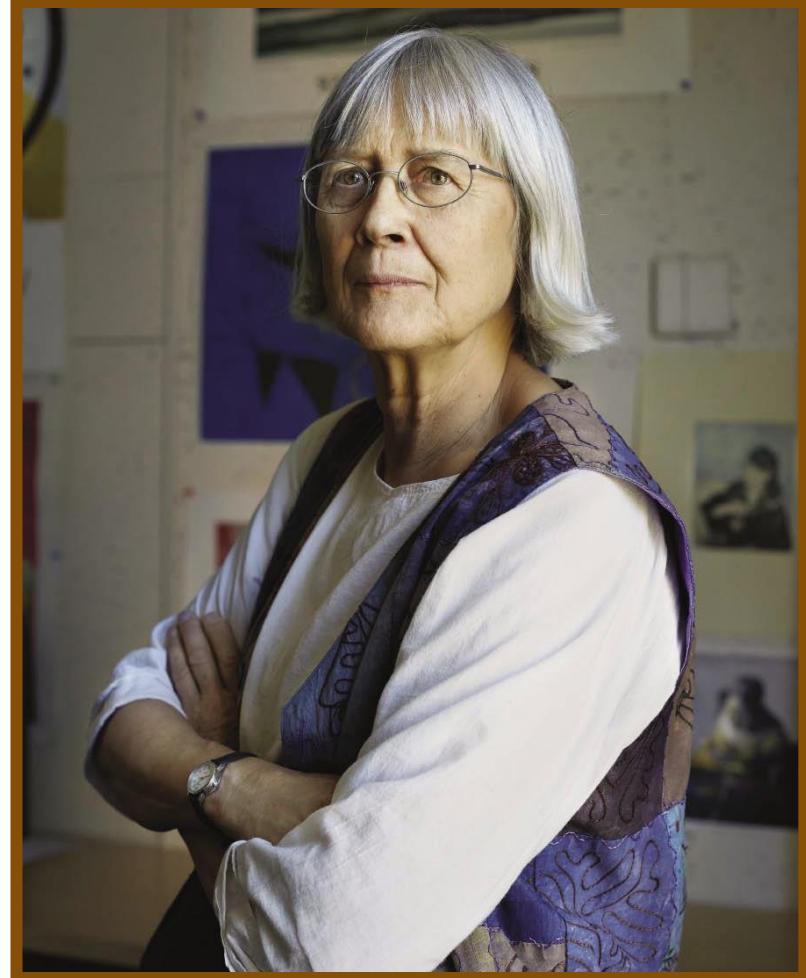
Yōko Ogawa



Gel'fand amazed me by talking of mathematics as though it were poetry.

I had always thought of mathematics as being much more straightforward: a formula is a formula, and an algebra is an algebra, but Gel'fand found hedgehogs lurking in the rows of his spectral sequences!

Dusa McDuff



Ask yourself
dumb questions
- and answer
them.

Terry Tao



One moment, you have no clue what some piece of mathematics is saying, and suddenly there's this neurological shift and it clicks into place. Then, not only do you understand it, but it's almost incomprehensible that you didn't understand it five seconds ago. I find that really satisfying.

Holly Krieger

