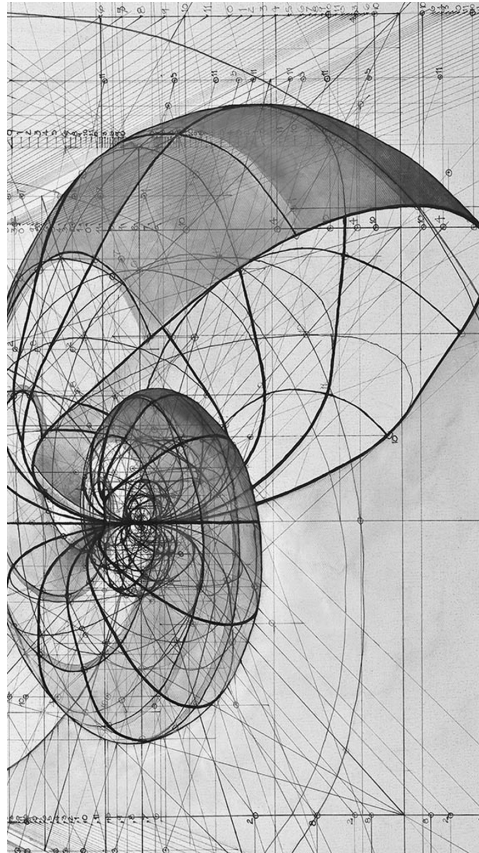


# MAth -097

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Summer Semester 2021



*Every unique thing in nature is related to the whole, and partakes of the perfection of the whole.*

-Plato

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*I loved logic, math, computer programming. I loved systems and logic approaches. And so I just figured architecture is this perfect combination.*

*-Maya Lin*

"I think that modern physics has definitely decided in favor of Plato. In fact the smallest units of matter are not physical objects in the ordinary sense; they are forms, ideas which can be expressed unambiguously only in mathematical language."

— Werner Heisenberg



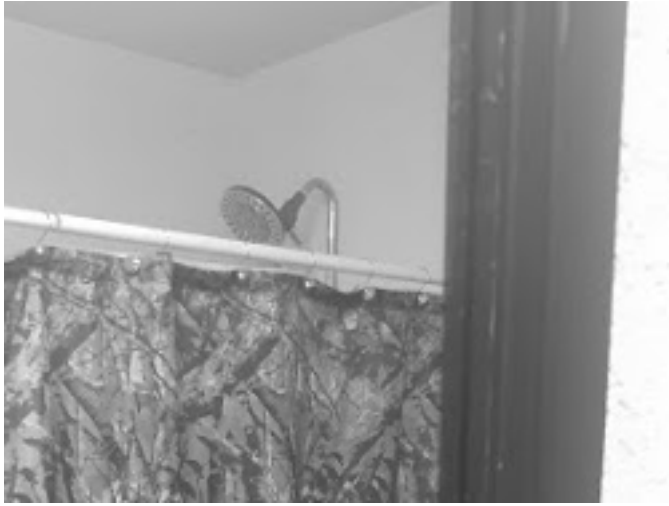


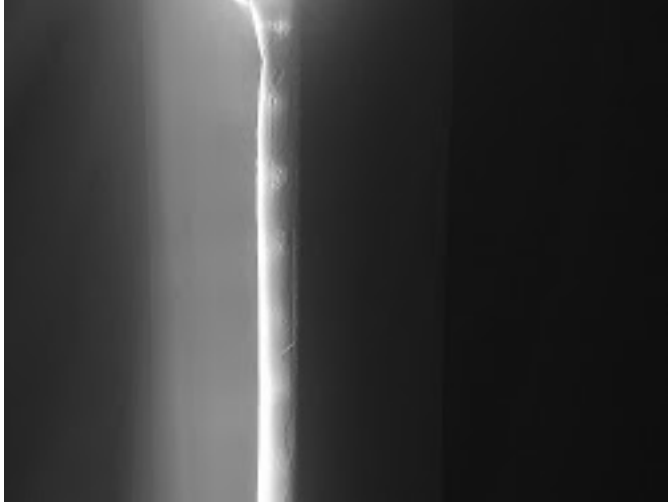
















Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers.

— Shakuntala Devi, Indian writer and mental calculator



**We will always have STEM with us. 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, African-American mathematician**





**Mathematics knows no races or geographic boundaries; for mathematics, the cultural world is one country.**

**— David Hilbert, German mathematician**



**It is clear that the chief end of mathematical study must be to make the students think.**

**— John Wesley Young, American mathematician**



**Go down deep enough into anything and you will find mathematics.**

**— Dean Schlicter**



**Many who have had an opportunity of knowing any more about mathematics confuse it with arithmetic and consider it an arid science. However, it is a science which requires a great amount of imagination.**

**— Sofia Kovalevskaya**



**Mathematics is a place where you can do things which you can't do in  
the real world.**

**— Marcus du Sautoy**



**The definition of a good mathematical problem is the mathematics it generates rather than the problem itself.**

**— Andrew Wiles**



**I hope that seeing the excitement of solving this problem will make mathematicians realize that there are lots and lots of other problems in mathematics which are going to be just as challenging in the future.**

**— Andrew Wiles**



**Dear Math, please grow up and solve your own problems. I'm tired of solving them for you.**

**— Anonymous**



“MATHEMATICS is not about numbers, equations, computations, or algorithms: it is about UNDERSTANDING.”

-William Paul Thurston



“Arithmetic is being able to count to twenty without taking off your shoes.”

-Mickey Mouse



“Mathematics rightly viewed  
possesses not only truth but  
supreme beauty.”

-Bertrand Russell



“Life is a math equation. In order to gain the most, you have to know how to convert negatives into positives.”

-Anonymous



“Mathematics is the music  
of reason.”

--James Joseph Sylvester



“Math may not teach me how to add love or subtract hate, but it gives me every reason to hope that every problem has a solution.”

-Anonymous



“If you stop at general math, you only  
make general money.”  
-Snoop Dogg



“Sometimes the questions are complicated, but the answers are simple.”

-Dr. Suess





“Equations are just the boring part of Mathematics. I attempt to see things in terms of Geometry.”

-Steven Hawking



“Without Mathematics there is nothing you can do. Everything around you is mathematics. Everything around you is numbers.”

-Shakuntala Devi

*Silence*

Mathematics is the most  
beautiful and most powerful  
creation of the human spirit.  
**-Stefan Banach**



Mathematics as an expression of the human mind reflects the active will, the contemplative reason, and the desire for aesthetic perfection. Its basic elements are logic and intuition, analysis and construction, generality and individuality.  
— **Richard Courant**



As far as the laws of  
mathematics refer to reality,  
they are not certain, and as far  
as they are certain, they do not  
refer to reality.

— **Albert Einstein**



What is mathematics? It is only  
a systematic effort of solving  
puzzles posed by nature.  
— **Shakuntala Devi**



Mathematics is not about numbers, equations, computations, or algorithms: it is about understanding.  
— **William Paul Thurston**





Mathematics has beauty and romance. It's not a boring place to be, the mathematical world. It's an extraordinary place; it's worth spending time there.

— **Marcus du Sautoy**



Why do children dread mathematics? Because of the wrong approach. Because it is looked at as a subject.  
— **Shakuntala Devi**



If there is a 50-50 chance that something can go wrong, then nine times out of 10 it will.  
— **Paul Harvey**



There are two ways to do great mathematics. The first is to be smarter than everybody else. The second way is to be stupider than everybody else — but persistent.

— **Raoul Bott**

Lights create shadows and reflections  
while brightening this mathematical  
world simultaneously.

-Glory Juarez



Mathematics is the abstract key which  
turns the lock of the physical universe.

– John Polkinghorne



I think the universe is pure geometry-  
basically, a beautiful shape twisting  
around and dancing over space-time

-Anthony Garrett Lisi



Always remember the order of operations in whatever you do and many problems will be solved.

-Glory Juarez





The essence of mathematics resides in its freedom. To ask the right question is harder than to answer it.

-Georg Cantor



Mathematics is not about numbers,  
equations, computations, or algorithms:  
it is about understanding.

-William Paul Thurston



Math is sometimes called the science of patterns.

-Ronald Graham



Doing mathematics should always mean finding patterns and crafting beautiful and meaningful explanations.

-Paul Lockart



The highest form of pure thought is in mathematics.

-Plato



People, like numbers, connect the world  
and such is the basis of life.

-Glory Juarez

Mathematics is a language

- Josiah Willard Gibbs



Nature is written in mathematical language  
-Galileo Galilei





Go down deep enough into anything  
and you will find mathematics

-Dean Schlicter



Mathematics compares the most diverse phenomena and discovers the secret analogies that unite them

-Joseph Fourier



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

-Sofia Kovalevskaya



Mathematics is the music of reason

-James Joseph Sylvester



'Obvious' is the most dangerous word in mathematics

-Eric Temple Bell



Pure mathematics is, in its way, the poetry of  
logical ideas

-Albert Einstein



Mathematics is the most beautiful and most powerful  
creation of the human spirit

-Stefan Banach



What is mathematics? It is only a systematic effort of solving puzzles posed by nature

-Shakuntala Devi



"The study of mathematics, like the Nile, begins in minuteness but ends in magnificence."

Charles Caleb Colton



“Mathematics expresses values that reflect the cosmos, including orderliness, balance, harmony, logic, and abstract beauty.”

Deepak Chopra



Go down deep enough into anything and you will find mathematics."

Dean Schlicter



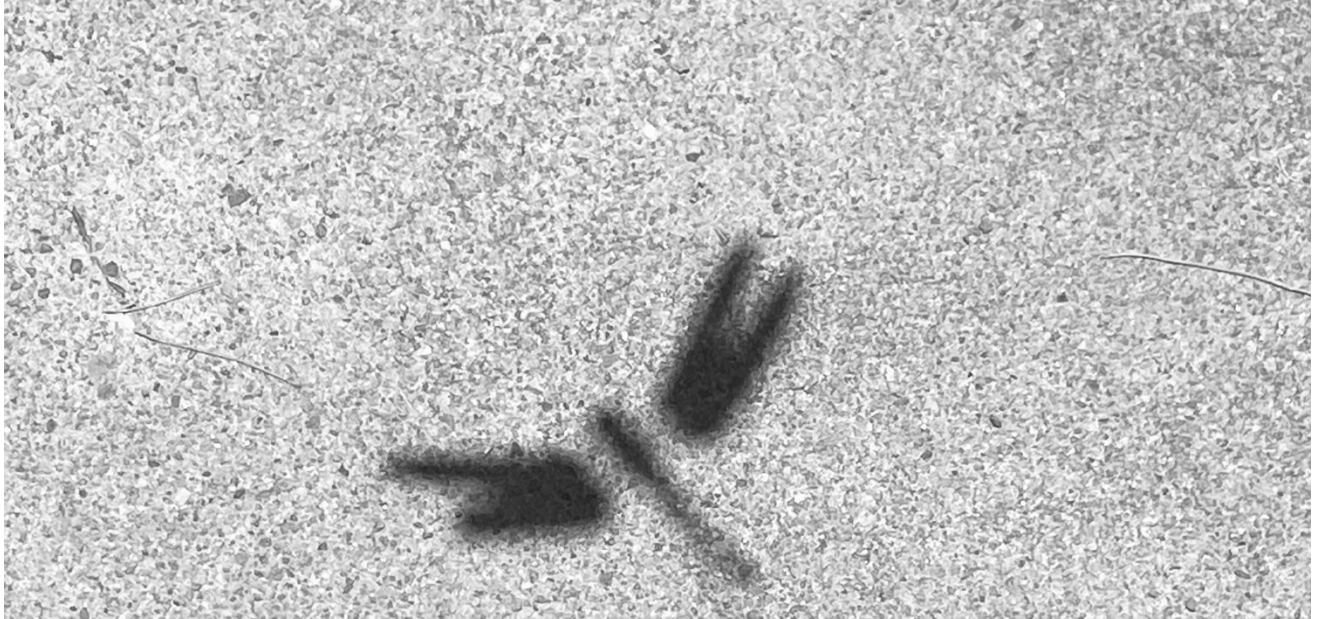
"Nature is written in  
mathematical language."

Galileo Galilei



"In Mathematics the art of proposing a question must be held of higher value than solving it."

George Ferdinand Ludwig Philipp Cantor



Mathematics is, in its way, the poetry of logical ideas."

Albert Einstein



"Obvious is the most dangerous word in mathematics."

Eric Temple Belle



“Mathematics is a game played according to simple rules with meaningless marks on paper.”

David Hilbert





“Mathematics is the art of giving the same name to different things.”

Henri Poincare



"Mathematics is the science  
which draws necessary  
conclusions."

Benjamin Pierce

Mathematics is an universal language because everyone can do it.



Without mathematics, there's  
nothing you can do. Everything  
around you is mathematics.  
Everything around you is numbers.

— Shakuntala Devi



Mathematics is the most beautiful  
and most powerful creation of the  
human spirit.

— Stefan Banach



We will always have STEM with us. 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



What is mathematics? It is only a systematic effort of solving puzzles posed by nature.

— Shakuntala Devi



Mathematics allows for no  
hypocrisy and no vagueness.

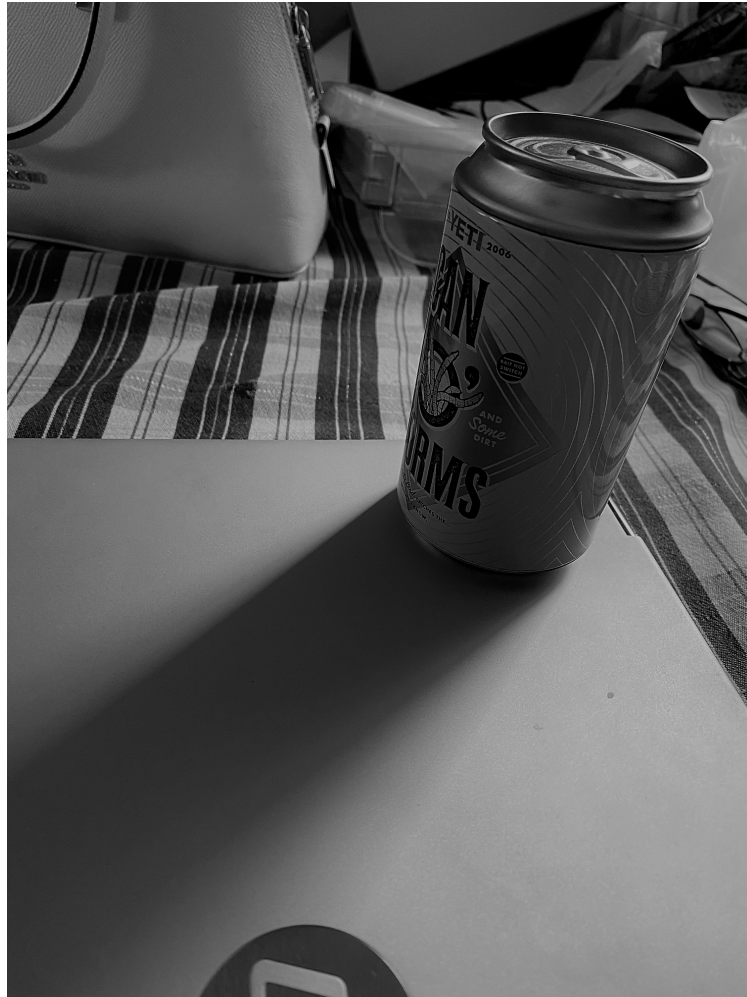
— Stendhal (pen name of Marie-  
Henri Beyle)





Mathematics is not about numbers,  
equations, computations, or  
algorithms: it is about  
understanding.

— William Paul Thurston



In mathematics the art of  
proposing a question must be held  
of higher value than solving it.

— Georg Cantor



Go down deep enough into  
anything and you will find  
mathematics.

— Dean Schlicter



The study of mathematics, like the Nile, begins in minuteness but ends in magnificence.

— Charles Caleb Colton

**“All things are difficult before they are easy.”**

**Thomas Fuller**



**“God created everything by number,  
weight and measure.”**

**-Isaac Newton**



**“Wherever there is number there  
is beauty.”**

**-Plato**



**“The only way to do mathematics, is to do mathematics”**

**-Paul Halmos**





**“Sometimes the questions are complicated,  
and the answers are simple”**

**-Dr. Seuss**



**The book of nature is written in  
the language of mathematics.”**

**-Galileo**



**“Number rule the universe.”**

**-Pythagoras**



**“Not everything that counts can be counted and  
not everything that can be counted counts.”**

**-Albert Einstein**



**“Mistakes are proof that  
you are trying.”**

**-Jennifer Lin**



**Mathematics is the music of reason.”**

**-James Joseph Sylvester**