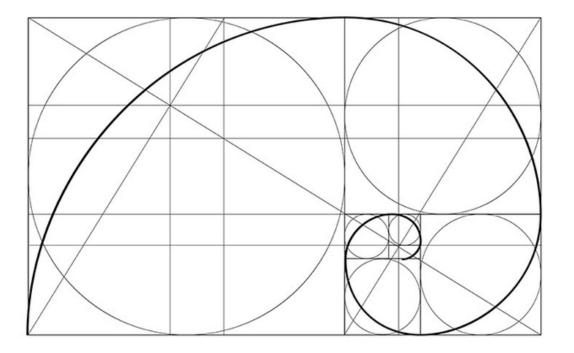


Fall 2021



If a man's wit be wandering, let him study the mathematics.

-Francis Bacon

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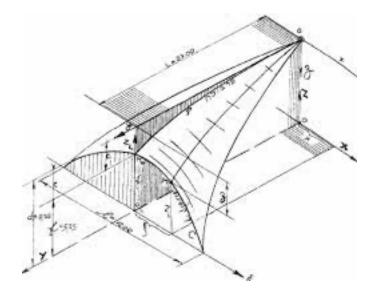
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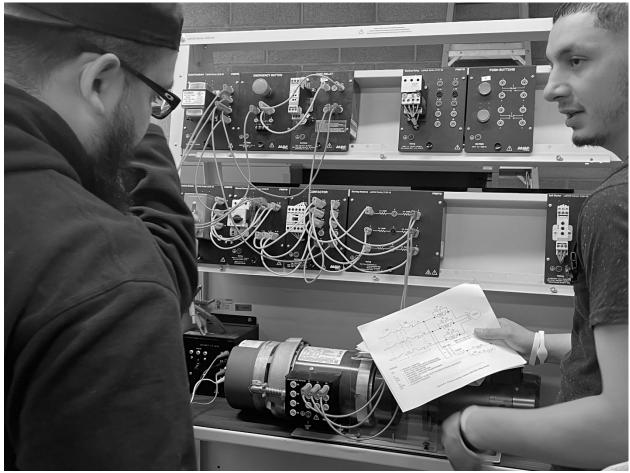
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While physics and mathematics may tell us how the universe began, they are not much use in predicting human behavior because there are far too many equations to solve. I'm no better than anyone else at understanding what makes people tick, particularly women.

-Stephen Hawking

Back to school after 60



Two students working on wiring schematics somthing new for all who show up enjoying there hands on learning.



Dawn breaking on the horizon a little well deserved recreationafter a good weeks working to achieve some new skills



Another student investing in a Blue Collar trade burning rod and casting shadowstaking pride in what they do best WNMU has some great oportunities.



Shadows and some skeletal remaines of what was oncesomeones home .This was put out by a team of local volunteer fire fighters .

Local neighbors taking care of their neighborhood



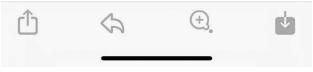




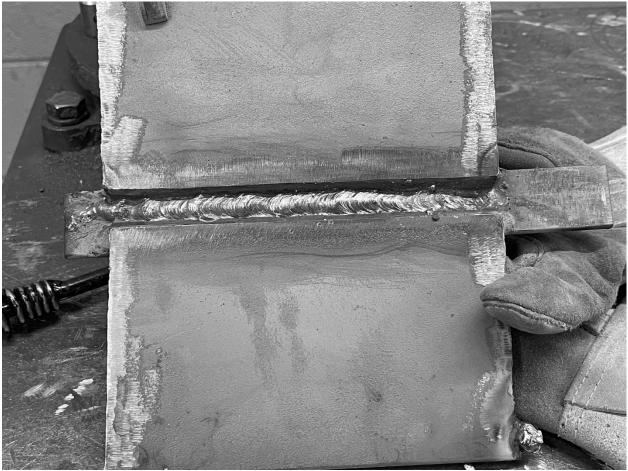
Same student striking another arc in another welding position. Welders have to work in extreme conditiond in all positions in order to achieve perfect results. Rays of sun

4:30 🗸	4:30 7	•III LTE 🗩
Done	2 of 3	





Rays of sunlight bleeding through a new set of stairs completed in three days by three blu collar workers.



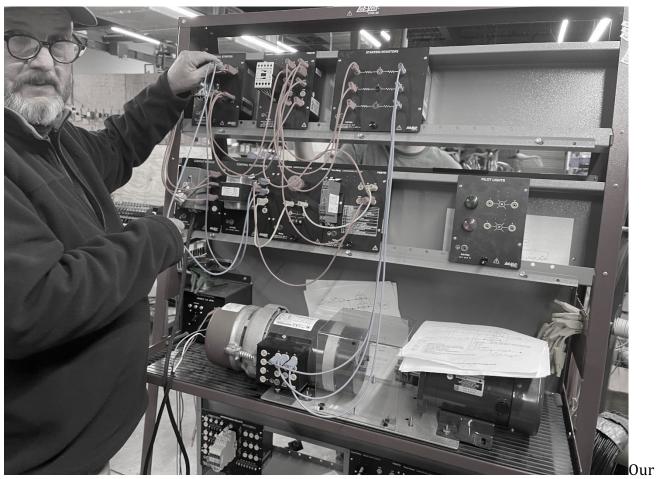
Firs.t welding bead comonly called a root pass very important in the welding trade



Evening shadows cast into the welding shop while a student is cleaning up his welding project.taking pride in his work



Shadows cast in a welding booth by an elderly student LEARNING the trade.



well respected electrical instructor proofing our electrical schematics after compleating motor drives.

Dog, a girl's best friend.



Creativeness is finding patterns where none exist.

- Thomas M. Disch



Understanding of life begins with the understanding of patterns. - Fritjof Capra



Math can be related to our lives. it teaches us to always be careful with the signs,

- Harish Kumar

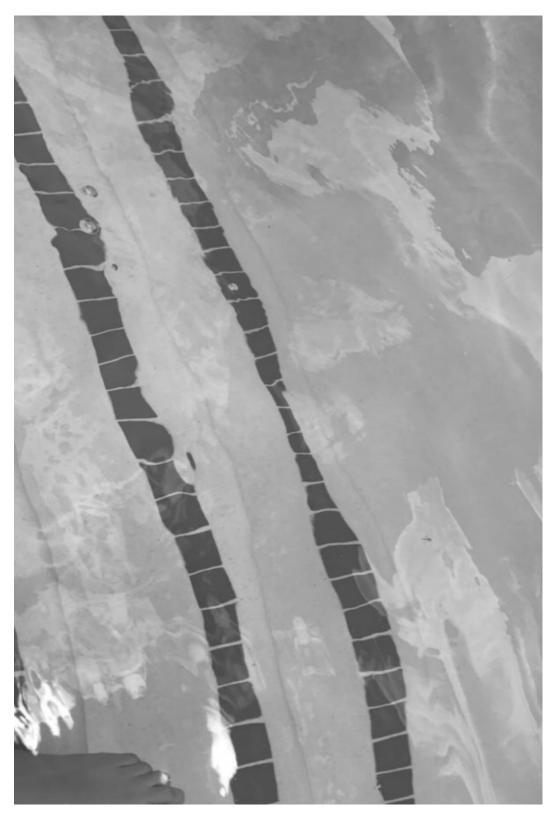


Everything has a pattern, you just need to notice - Jayanti Sinha.



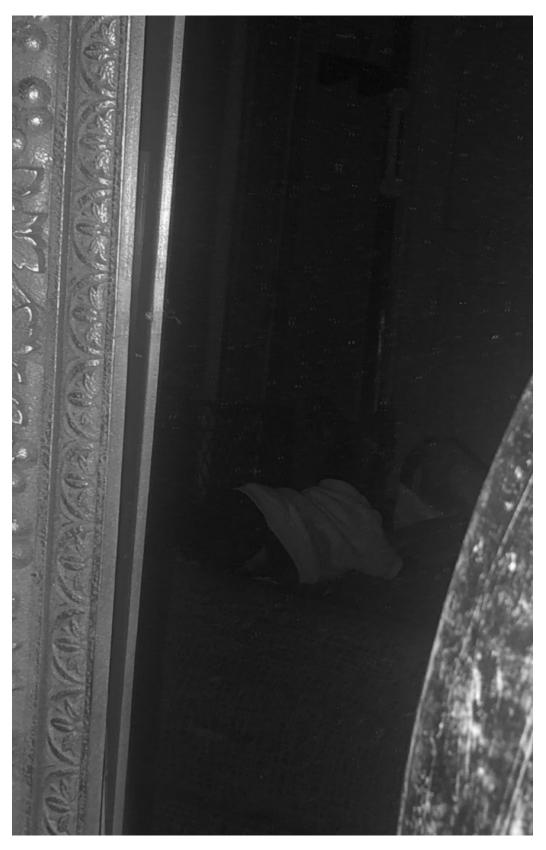
Math gives us hope that every problem has a solution.

- Auiuash Waudre



Not everything that can be counted counts, and not everything that counts can be counted.

- Albert Einstein



On a beautiful mind, there was a wall of math.

- Josh Lucas



As for everything else, so for mathematical theory: beauty can be perceived but not explained

- Arthur Cayley



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

- Paul Lockhart

"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-



"It is the supreme art of the teacher to awaken joy in creative expression and knowledge" -Albert Einstein-

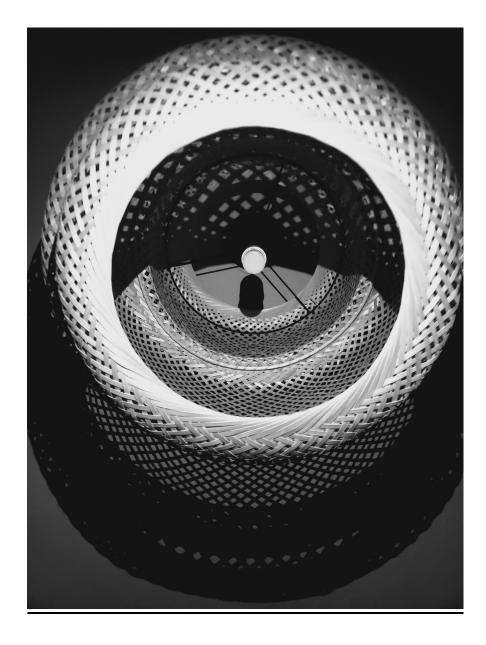


"Mathematics is the music of reason" -James Joseph Sylvester-



"There's no reason to stereotype yourself. Doing math is like going to the gym – it's a workout for your brain and it makes you smarter." -Danica Mckellar-





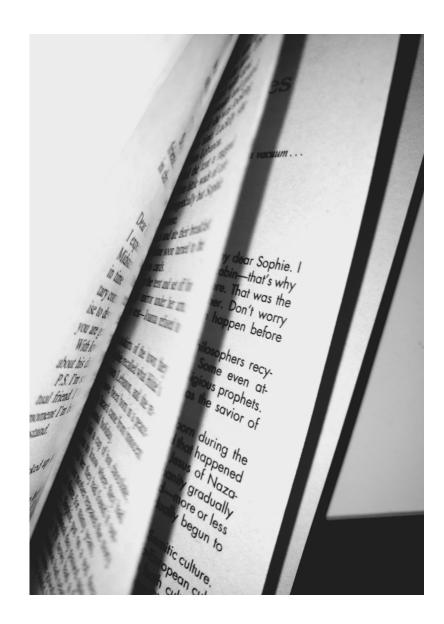
"You can be creative in anything — in math, science, engineering, philosophy — as much as you can in music or in painting or in dance" -Ken Robinson-



"Music is the pleasure the human mind experiences from counting without being aware that it is counting" -Gottfried Leibniz-



"Crystals grew inside rock like arithmetic flowers. They lengthened and spread, added plane to plane in an awed and perfect obedience to an absolute geometry that even stones – maybe only the stones understood" -Annie Dillard-



"Pure mathematics is- in its own way- the poetry of logical ideas" -Albert Einstein-



"The pure mathematician, like the musician, is a free creator of his world of ordered beauty" -Bertrand Russell-

To me, mathematics, computer science, and the arts are insanely related. They're all creative expressions.

— Sebastian Thrun, German innovator, computer scientist and entrepreneur educator



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



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



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



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

— Dean Schlicter



One of the endlessly alluring aspects of mathematics is that its thorniest paradoxes have a way of blooming into beautiful theories.

- Philip J. Davis, American academic applied mathematician



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



The essence of mathematics lies in its freedom. — Georg Cantor



"Mathematics are the result of mysterious powers which no one understands."

- Marston Morse.



"In mathematics the art of proposing a question must be held of higher value than solving it." – Georg Ferdinand Ludwig Philipp Cantor

Peace



"Obvious" is the most dangerous word in mathematics

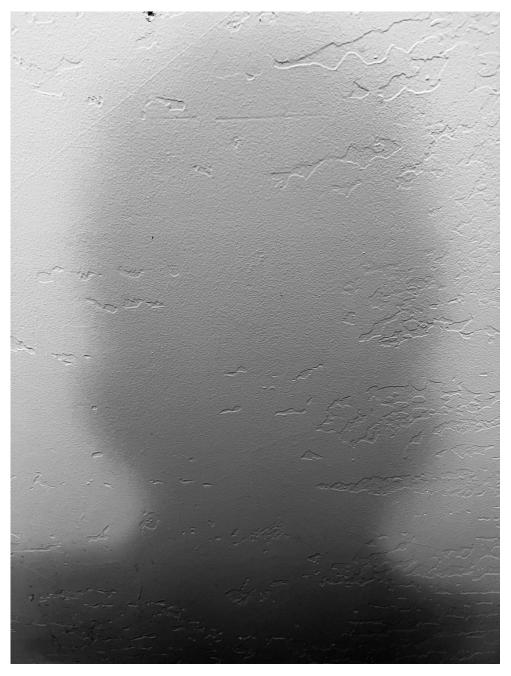
---E.T. Bell



Mathematics possesses not only truth but supreme beauty – a beauty cold and austere, like that of sculpture ---Bertrand Russell



Mathematic is the key and door to the sciences --- Galileo Galilei



Mathematics knows no races or geographic boundaries; For mathematics the cultural world is one country ----- David Hilbert



Math is how we describe our world when words are not enough. Everyone deserves to speak math and to play math, To enjoy its beauty and its power ----Geoff White



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

- Stefan Banach.



"Mathematics are the result of mysterious powers which no one understands."

- Marston Morse.



"Life is good for only two things, discovering mathematics and teaching mathematics."

- Simeon Poisson.



"Mathematics is the music of reason."

- James Joseph Sylvester.

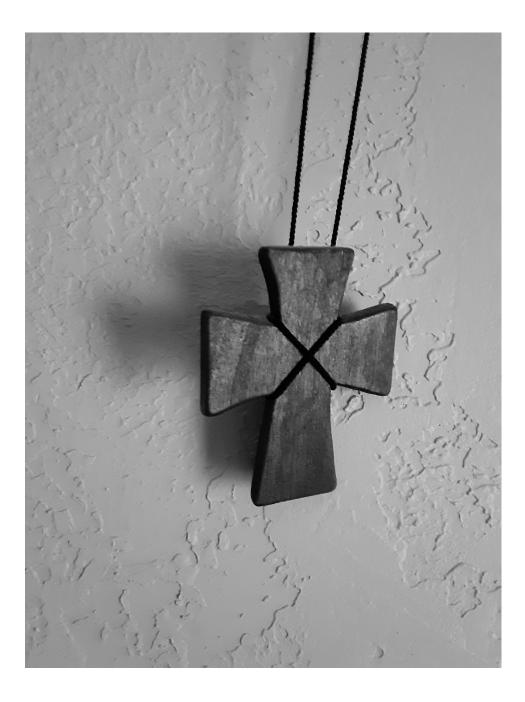
A picture should be valued and kept for memories no matter what it is or where it came from \sim A.G.



"You have to spend some energy and effort to see the beauty of math" ~ Maryam Mirzakhani



"Everywhere that is not in shadows is reflecting the brilliance of the light" ~ Jazz Feylynn



"God used beautiful mathematics in creating the world" ~ Paul Dirac



"A mathematical formula for happiness: Reality divided by expectations. There were two ways to be happy: Improve your reality or lower your expectations." ~ Jodi Picoult



"Mathematics is only the art of saying the same thing in different words" ~Bertrand Russel



"Math is the only place where truth and beauty mean the same thing" ~ Danica McKellar



"Mathematicians are born not made" ~ Henri Poincare



"The book of nature is written in the language of mathematics" ~ Galileo Gahlei



"But in my opinion all things in nature occur mathematically" ~ Rene Descartes

In abstract forms, mathematics is used. Using math, we can create simple ideas from objects.



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

-Shakuntala Devi



One should study mathematics simply because it helps to arrange one's idea -M.W. LOMONOSSOW



"The essence of mathematics is not to make simple things complicated, but to make complicated things simple."

-S. Gudder.



"The only way learn mathematics is to do mathematics. ~Paul Halmos.



Therefore, O students study mathematics and do not build without foundation.

~Leonardo da Vinci



There should be no such thing as boring mathematics. -Edsger Dijkstra



"Nature is written in mathematical language" Galileo Galilei



Everytime a student makes a mistake in math, they grow a synapse.

Jo Boaler

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



There should be no such thing as boring mathematics. -Edsger



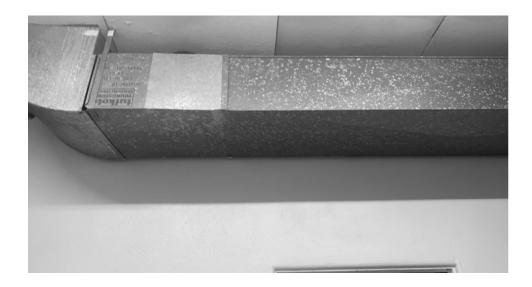
Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers. –Shakuntala Devi



Somehow, it's o.k. for people to chuckle about not being good at math. Yet if I said 'I never learned to read," they'd say I was an illiterate dolt." –Neil Degrasse Tyson



If you stop at general math, then you will only make general money. –Snoop Dogg



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



Mathematics may not teach us to add love or subtract hate, but it gives us hope that every problem has a solution. –Anonymous



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



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

Mathematics is essential and is art to some. There is nothing more interesting then adding the two together. Some pictures and some math. Complicated yet unique.

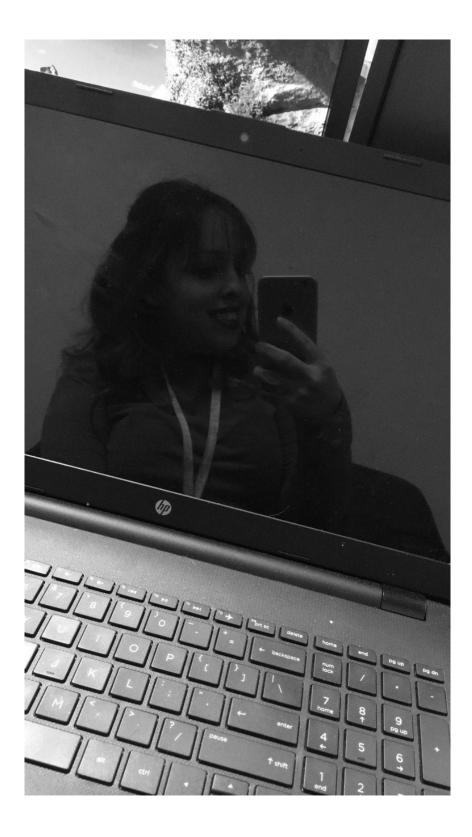


Mathematics is not about number, equations, computations, or algorithms: it is about understanding -William Paul Thurston



Life is a continuous exercise in creative problem-solving.

-Michael J. Gelb



Success is the sum of small efforts, repeated day in and day out -R Collier



The only way to learn mathematics is to do mathematics.

– Paul Halmos



What humans do with the language of mathematics is to describe patterns.



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

– Albert Einstein



Math is the only place where truth and beauty mean the same thing. -Danica McKellar



There should be no such thing as boring mathematics.

– Edsger Dijkstra

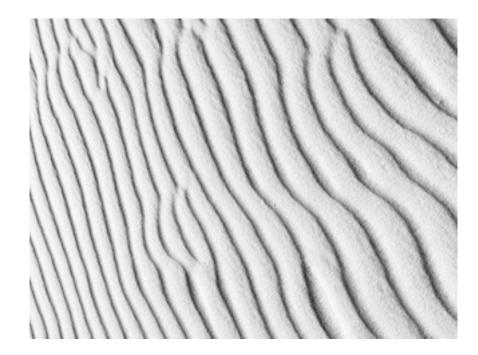


Beauty is the first test: there is no permanent place in the world for ugly mathematics. -G.H. Hardy

Removing color from the photos forces the eye to focus on the images and appreciate them even more. There is such pure beauty in shadows.

"There is no light without shadow..."

Isabel Allende



"Mathematics is the science of patterns, and nature exploits just about every pattern that there is."

Ian Stewart



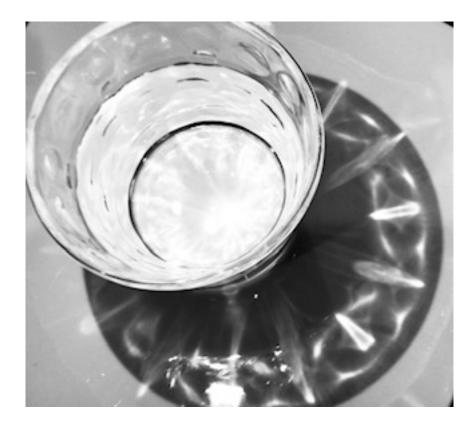
"The book of nature is written in the language of mathematics."

Galileo Galilei



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

Deepak Chopra



"Math is sometimes called the science of

patterns".

Ronald Graham



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

—Danica McKellar



"The world is made of patterns. The rings of a tree. The raindrops on the dusty ground. The path the sun follows from morning to dusk."

Kathi Appelt



"Mathematics is an art of human understanding."

William Thurston



"There is geometry in the humming of the strings, there is music in the spacing of the spheres."

Pythagoras



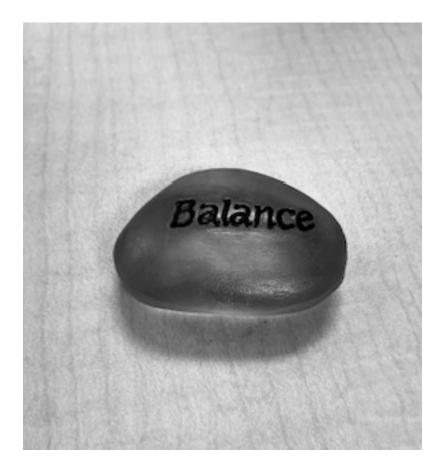
"The real satisfaction from mathematics is in learning from others and sharing with others."

William Thurston



"Without mathematics there is no art."

Luca Pacioli



"The essence of mathematics is not to make simple things complicated, but to make the complicated things simple."

S. Gudder

Sometimes you just need to take a deep breathe and send it.



"The essence of mathematics is not to make simple things complicated, but to make complicated things simple." -Stan Gudder



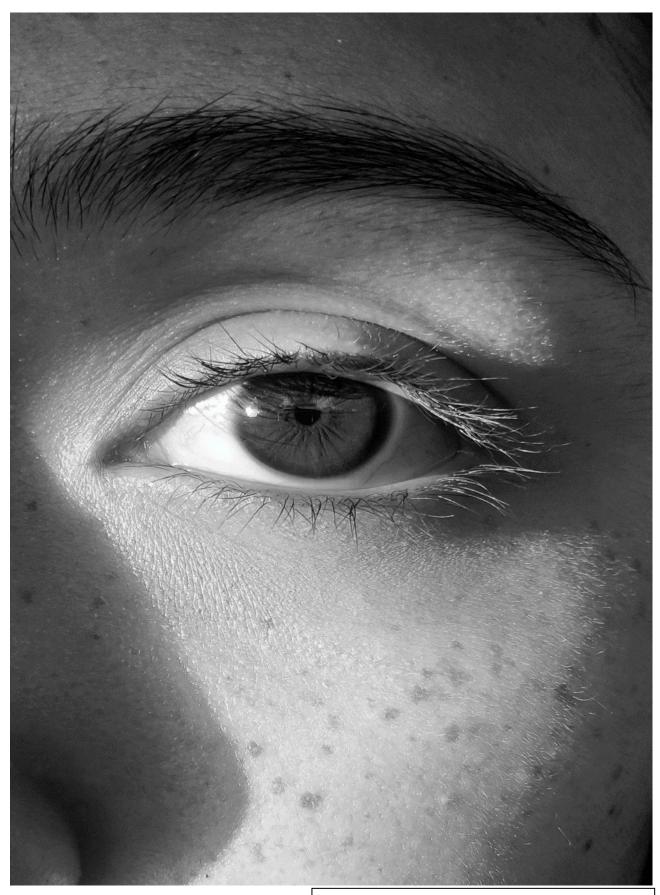
"Pure mathematics is, in its way, the poetry of logical ideas" -Albert Einstein



"There should be no such thing as boring mathematics." -Edsger Dijkstra



"Mathematics is not a contemplative but a creative subject." -G. H. Hardy



"Not everything that can be counted counts, and not everything that counts can be counted." -Albert Einstein



"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is" **-John von Newman**



"Mathematics possesses not only truth, but supreme beauty—a beauty cold and austere like that of a sculpture" -Bertrand Russell





If you stray from your usual path, you might find the adventure you need.

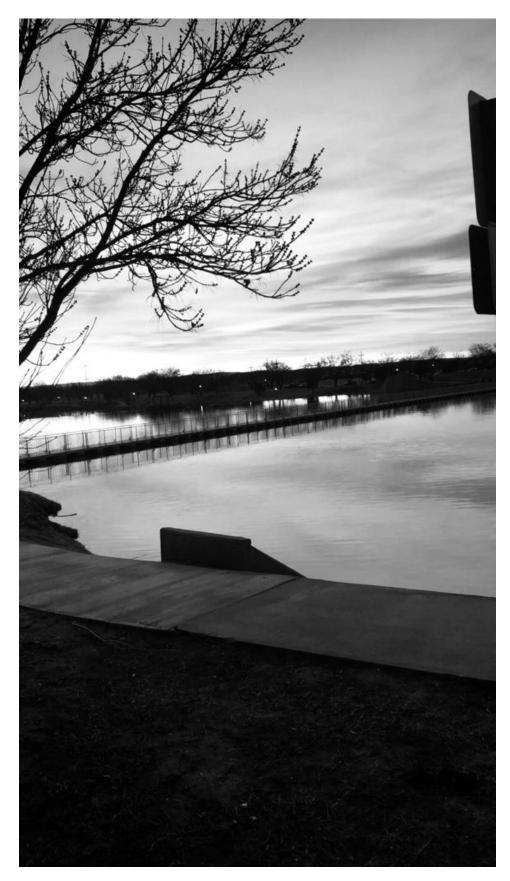
"The thing about shadows is that they're not all darkness. You need to have light to have shadows. So just look for it."

~ A. Meredith Walters



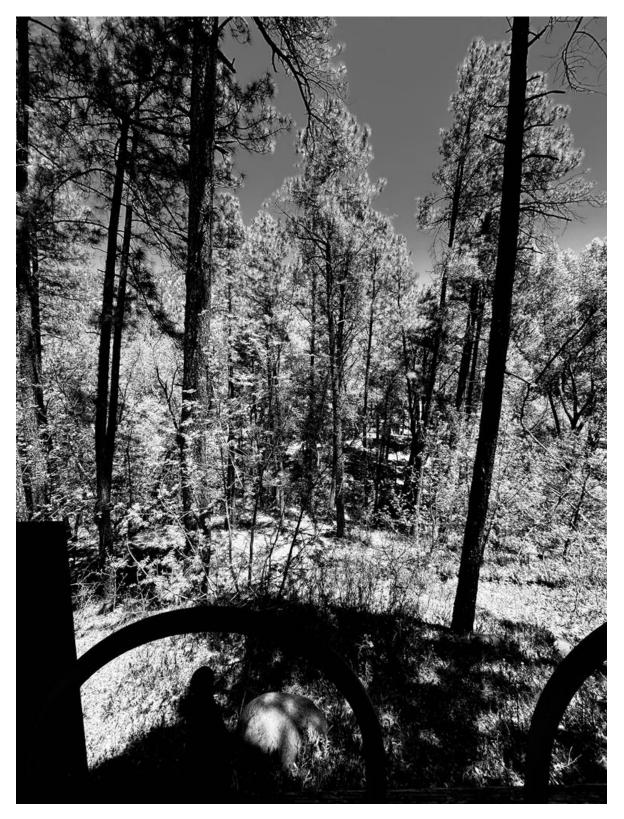
"Film is one of the three universal languages, the other two: mathematics and music."

~ Frank Capra.



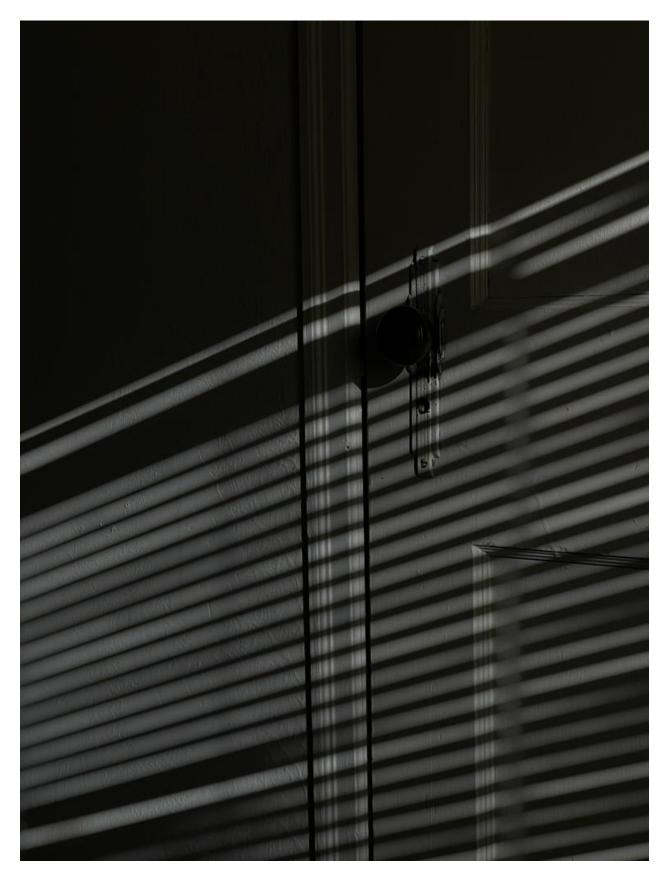
"It is impossible to be a mathematician without being a poet in soul."

~ Sofia Kovalevskaya



"To me, mathematics, computer science, and the arts are insanely related. They're all creative expressions."

~Sebastian Thrun.



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

~ Maryam Mirzakhani



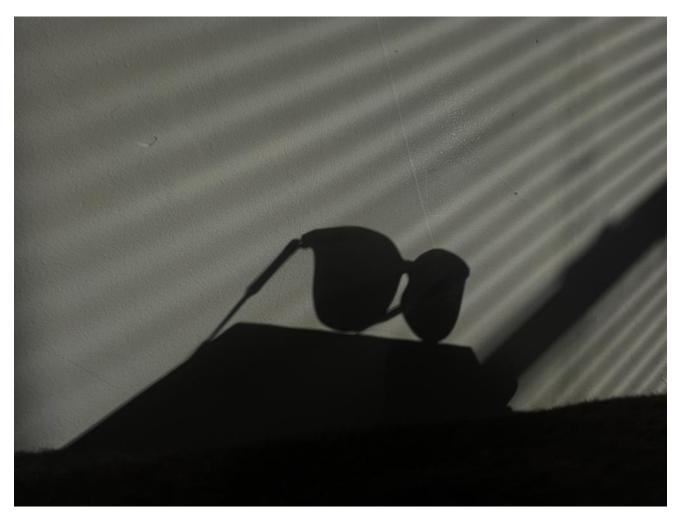
"Mathematics is the art of giving the same name to different things."

~ Henri Poincare.



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

~ Henri Poincare.



"To solve math problems, you need to know the basic mathematics before you can start applying it."

~ Catherine Asaro.



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

~Georg Cantor



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

~ Shakuntala Devi.

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