

# Math and Life

One day I was just roaming around. All of a sudden, I saw a man was passing by with a very shabby dress and speaking to himself. He was speaking about math, so I went nearby.

The man noted my interest and called me, " Hello Mr.! Come here!." I became a little bit frightened, "Is he gonna hit me?" I thought for a while. He then assured me, "I may look like a mad man but I am not. You will get a life lesson from me."

Then I went near and he told me to sit on the walls. Then he asked me, "Math is what?" "A problem solving method, a subject, a theory or a scientific era?" I replied. "Actually, math is math. You might say you are imitating Scientist Lwoff(Virus is Virus). Well, of course not! What if I say Math is life? Will you believe me? Or you say, "Hey man! You've gone crazy!" But I am not! Let's start." He continued,

"Mathematics, the particular name was given in the 6th century BC from the Greek word *μάθημα* (*mathema*), meaning "subject of instruction". Well, math has been practised before. Actually when we don't know. When, we use mathematics for problem solving. But what kind of problem? Is it our Classwork? Or Homework? Or Examination? Or Something else? Why is math needed? If I ask most of the students why we study math they will answer just to pass the examination of life."

I laughed. But look at me with his angry look.

"Funny? I can't join the laughter. Ask me why?"

I said, " Why?"

He told me,

"The answer is very complicated. First of all, the answers by the most common students are very pathetic. Why pathetic? Because they actually didn't get the real concept of applied study. Well If I ask is math a theory or application? What would you say?"

I looked at him for a while and was too frightened to give an answer. I was so nervous I could give him the proper answer. But he figured it out in my mind.

He told me, " You are thinking about theory, Right?"

"Yes," I replied with hesitation.

He shake his head and whispered, " All people are same, none them love math

90% of you people will answer it's theory based subject. Cause we have been confined with some particular rules and regulations. Yes, it is true if you just think about your syllabus and math exams. Even for pure mathematics it is partially true."

Then I argued, “ Then why are you emphasizing applied math?” “I was a math champion of that time in the intra-fest and preparing for further. And the mad arguing logically is true.” I thought for a while.

“But I love the rest of the guys. He continued.

“The rest 9.99% ( Cause according to Nicolas Léonard Sadi Carnot Law : Cause you can't be 100% efficient) are thinking about applying. Actually math is an applied subject. When you go out for your institution, you may always measure your time. Right? You may measure how the timespan is? Those who stay near may try to save some time from their to use time for their study more effectively. You are spontaneously using math in your subconscious mind. Then you go to a mall. You love to buy Adidas brand shoes or something else. You see the amount of the prize and your wallet. You use subtract here. If the amount of subtract is favorable then, of course, you decide to purchase your goods. If not then you look for other options. Here you are also thinking about probability. How? After buying the shoes can I buy other things? How much will it cost? Is it important for me? The thinking in your mind is really a higher level of math. “What if” is the terminology of probability. Now think? Isn't math an applied part? Or still consider it as a theory?”

The logic was too strong enough for me to say no. “I agreed,” I said.

mathematics of life

life  
+ laughter  
x love  
- hate  
-----  
= happiness

The he told me and strange thing,

“Now, close your eyes. Now, think you have an exam the next day and you have to meet with someone special. You are thinking of shifting the time schedule to meet with the special people. But she/he has only that time free when you have exams. That means you have to finish your exam. But you can't get out of there even after you finish your exam before the fixed time. And the exam and meeting are both important for you. What are you thinking? Now where the hell is math? Now listen, the critical thinking you are doing in your brain is the grant part of math called paradox. **a statement that is seemingly contradictory or opposed to common sense and yet is perhaps true b : a self-contradictory statement that at first seems true 2 : one (as a person, situation, or action) having seemingly contradictory qualities or phases.**”

Then he told me the famous paradox to solve that *I am lying.*

I was puzzled, “how did he know?” in side my mind.



Again he continued,

“Now moving on to the devices we use in our daily life. Do you think the binary digit is working behind? Of course, you may know. But here a new thing is present. The number theory. When you see the digit sequence, they are replaced simultaneously according to number theory. Now if there was no number theory behind this, imagine the things couldn't function well and there will always be a constant data fall or break down. As a result, you can't have a smooth communication at the end.”



I listened and kept listening to him. I was amazed at his mathematical concept.

He continued,

“Moving to the final and most amazing topic, Geometry and Trigonometry. Think about the sports. A footballer has only four mins left to score a goal. He is about 35 metres far away from the bar and he has to pass 3 defenders in front of him. He has to run about 3 m/s to reach at least near the goal post. And, the goalkeeper has to be very careful about the post that is in his hands to win the match. Now, here is a theory of magic- will happen. If the footballer can kick his football about 6 m/s at 30 degrees from the middle to left bar upper corner he can score a goal. Cause, here he used his geometrical knowledge. How? If you have heard the name projectile you can easily get it.

According to  $y = (\tan \theta)x - \frac{g}{2(v_0 \cos \theta)^2} x^2$

And  $y = bx - cx^2$

$ax^2 + bx + c = 0$

Now to find out the value of ‘a’.”

(1)  $-\frac{1}{2}gt^2 + v_0 \sin(\theta)t - \Delta y = 0$

use quadratic equation:

(2)  $t_{1,2} = \frac{v_0 \sin(\theta) \pm \sqrt{v_0^2 \sin^2(\theta) - 2g\Delta y}}{g}$

choose the later time (the second time y intercepts the elevation of the target):

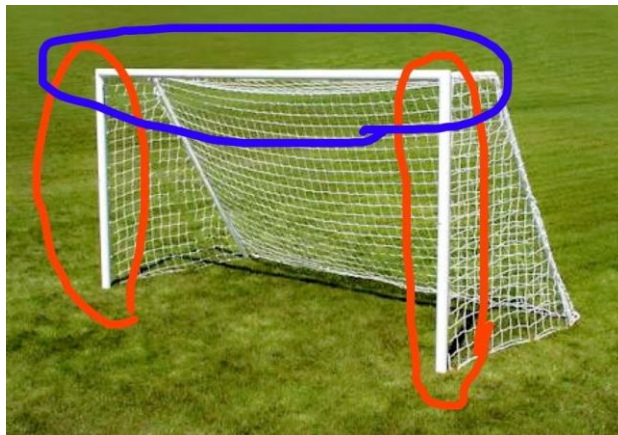
(3)  $t_2 = \frac{v_0 \sin(\theta) + \sqrt{v_0^2 \sin^2(\theta) - 2g\Delta y}}{g} = \frac{v_{y0} + v_{yf}}{g}$

using this time, calculate the range of the projectile:

(4)  $x_f = v_0 \cos(\theta)t_2 = v_{0\cos}(\theta) \left( \frac{v_{y0} + v_{yf}}{g} \right)$

now solve for theta:

(5)  $\theta = \frac{1}{2} \arcsin \left( \frac{x_f g}{v_0 (v_0 + v_f)} \right) \text{ for } \theta \leq \frac{\pi}{4}$



Now move towards literature and math relations. Let's march towards its impact in real life.

Now You can find block waves while the graph is drawn. Couldn't you find the most beautiful art drawn? Can't find literature in it? Take a close look at the synchronization of this graph from another view. Try it. Well, let me help you! When the graph uplifts that represents your success, happiness & your glory. Whenever your loved one smiles, your happiness level reaches the apex of the graph, you can feel the 1 in your life. Whenever your loved one is angry with you, your life graph goes down at the bottom, sometimes, your dullness reaches the deeper side and the value of your life becomes 0. Have you ever thought your life was like this? The correlation between your life with graphic proof of Boolean Algebra? Isn't it amazing? Now the question is where is literature? You love your loved one. The smile reminds you of a song that automatically hits the bell of your brain, " For your smile, I can die. Oh, Baby!" - Nat King Cole. That is your literature.”

I felt a little shy. Because it reminds me of my loved one, seriously.



“Should I need to explain the second? Hope you might have to get it.”  
I said, “ Yes please! I loved to hear from you!”

“Moving on to the next topic!! You and your friend were talking with each other in the garden about the lifespan of a Cell or a Biological body. Unfortunately, you forget that you must do an assignment given by your college and at the same time you need to learn from it from your friend because it is from your Biology exam. Here you are in a Paradox. Heavy math properties to solve. Now, what should you do? Math assignment or Biology lecture. The paradox is hard to solve and inside you are singing -AMI FAISA GECHI by HYDER HUSYN. You think of giving equal priority or less to someone while literacy is going on in your mind. HAHAHA. Man! Think wisely. You will wonder to see the wonderful events in your life that perfectly match with you.”

“Yes! Absolutely correct.” I smiled and thought It is a wonder to meet with this guy.

So!!!!!!!!!!!!!!!!!!!!!! He shouted gaily. Don't confine yourself to conventional math practice! Rather, try to solve the math of your life. Or else at the end of the day, you may say the famous dialogue simultaneously.



He laughed out in laughter. Me also.

And that is, never ever think of math as a subject or a boring piece of life.

Try to feel from the heart.

Math is art and it can also create other arts.

Last word from me,

“Happy Math Practising!”

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Then he stood up and walked past me. I tried to ask him, “ Who are you really?  
For such a good concept it takes years to be clarified.”

“To find who I am. Do math!” Then he vanished away.

From that I fell in love with math not just for the Olympiad or examination but in a true sense of love. Thank to that math loving mad!!!!