## S.C.U.G.V.H.S.S. PATTANAKKAD

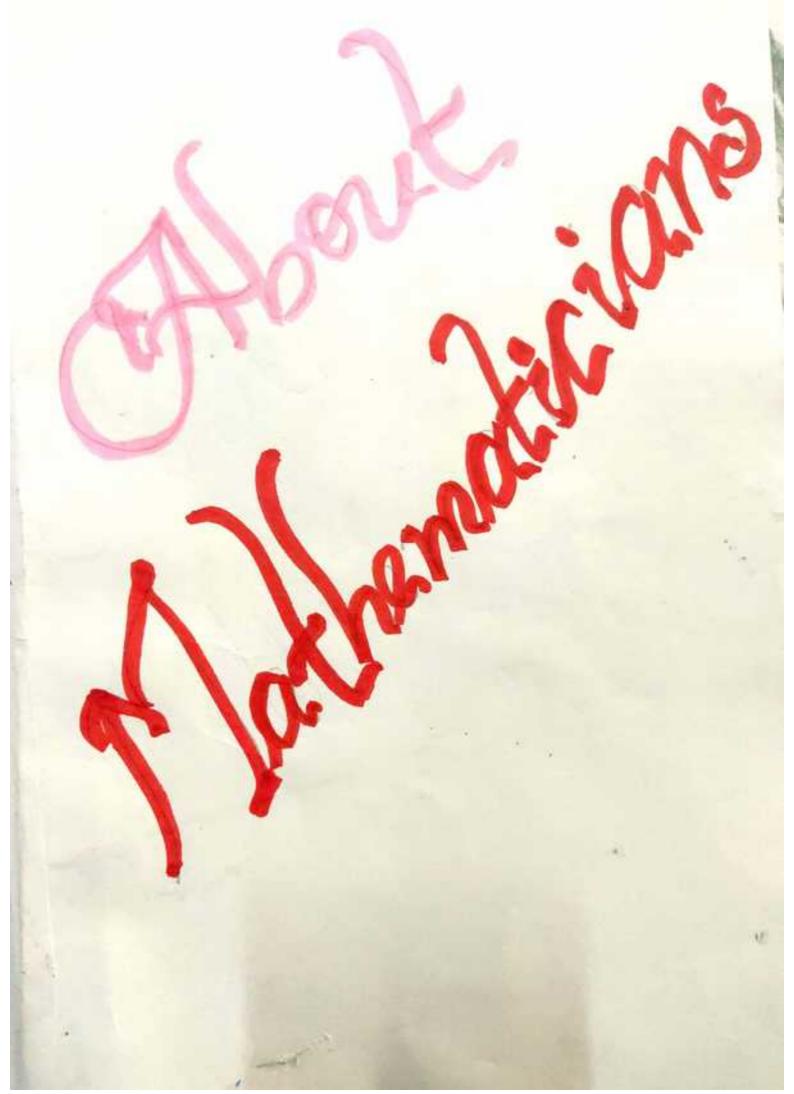


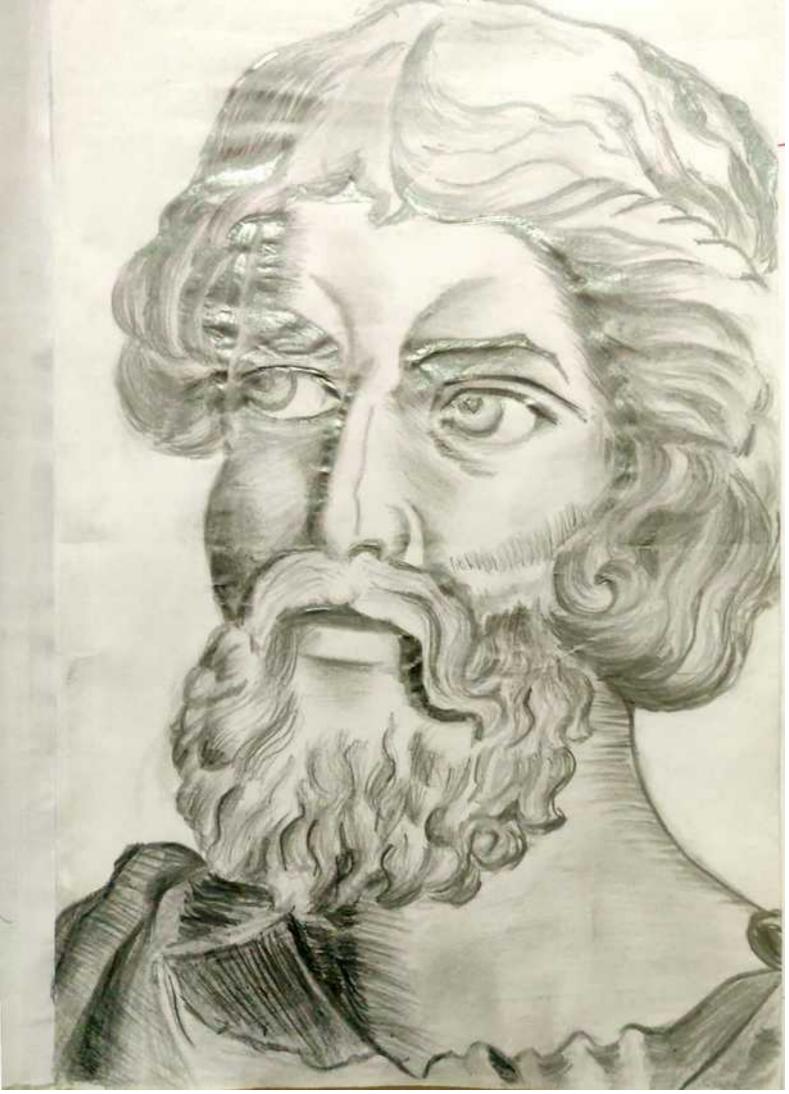
## MAGIC OF MATHS



Scanned by CamScanner

Index About Mathimaticians ..... Measurements ..... 2. Mathematical Theories ...... 31 Maths poems ..... 4 Mathe and numbers .... 5 Geome trical Patterns 6





ythe gones Pythagonas is often referred to as the first pure mathematician. de was been on the island of Samos Grace in 569 BC. Various Ulaitings place his cleath between 500 BC and 4 75 BC in Metapontum, lucania, Italy Art father, Moesarchus, ulas a gen merchant. Alis mother's name was Pythais Pythagosus had two On three brothers. Dome historiars Say that pythagoxets ulas married to a woman named Theano and had a daughter Damo and a son named Telauges, who succe ded phthagozas as a teacher and possi by taught Empedales. Others say that Thears was and one of his skidents not his suife and say that pythagains never mariled suas nulleducated, and he played the lyre

Poetry and recited Homer. He was Alexested in richematics, Philosophy, name phereky PAthapaxas belived :the basisfor everything, and geome-try is the highest form of mathematics studies. The physical model can sinder stood theough mathematics. The soul sesides in the brain and Immontal. It moves from One being to another, sometimes from a human into an arimal, through a series Jemanations Called Exanconigraton until it becomes pure. Pythagas believed that both mathematics and music Could purify, Numbers have personalities, Charactaistics, strengths and releasiness The revealed depends upon the intercies tion of opposites, such as male and female, lightness and darkness, warm and Cold, degand moist, light and really fait and sources low a mystical # All members of the society significance . All members of the should observe striet loyalty and searcy

Scanned by CamScanner



Euclich Inathematicians, yet very little is known of University at alexandera, Egypt Euclid's most famous work is his collection of 13 books dealing with geometry, called the elements. As producer of the Elements, his most prominent week, Euclid became the leading mathe matician and thacher of all time. The book Compaises of Thisteen Volumes of geometyy books. Consisting of the mest use ful geon metical Proofs which barre maintain neel their Significance till the present day, this book also has Formation on the number theory infini-tucked of prime numbers, Excerdis

Euclid didthis by morking out the relation between the Deepes and the things seen by them: The work postims is Sometimes betreved to be more advanced mathematics than like a theorem which is riscel to prove a theory but cictually is used to prove & theory but actually is used to highlight a Pature of an already present Theory, "Catoptric's dealt with the mathematical theory on buinnons. 'Conics' Mas about conic Sections and surface los · Conjectured to be about quadric surfaces - Other attributions by uetic cilso included his Workson mechanics the source being Arabic nature.

and theory of proportions. Other Works Euclid has ulusked in many other creas of geometry Such as in the book 'pata' where his plane geometry is mentioned Snother book 'On Drusson'also class with Exclid's ideas on plane geometry phienomenal by Eullid would be the modern day applied mathematics withich concerns the geometry of pheres Used mostly in astronomy other suivived upsks include 'optics' and PORISms' Optics' connected the mis onception of the time that the Sun, moons and bequerly bodies are the same size other they appear to the naked eye



Sninnsaflammilan Dreennasa Kamanujan on Indian mathematidas neces orn in 22rd December, 180 n Madeas, India. who lined during the British Raile in India. De made Substantial Contributions to mathematical analysis, number revery, infinite series, and Continued Fractions, including abons to mathematical problem her Considered Unsolvable. Ramania ally developed his Own mathema al research in isolation: He tried interest the leading Professional nathematicians in his nearth, but failed the most part. S. Ranamijan

Contributionsto mathematics Alis dief Contribution to mathemalic lies mainly in analysis, game theory and infinite Series. inde in depth analysis in Order The some various mathematical Bothems by bringing to light new and novel ideas that gave impeters to Progress of game theory Such was his mathematical gennes but he discovered his own theorems auns because offers keen insight and rateal intelligence that he came 12 with infinite Series of T. L = 212 ~ (4K)! (1103+26390K) 98 01 K=0 (k!)+396 # This Series made up the basis of ertam algorithms that are used tocay One sach remarkable instance is when he Some the prosiate problem of his roomente at spin of movement

Scanned by CamScanner

with a nouel answer that Soluced the whole class of peoblems Theory & Continued Traction Besteles Former y unknown identities such as by Line ing Coefficients of and Providing 10len Hies for hyperbolic Secont. The also described to detai The mock theta function, a Concept of mock modular form in mathematics initially, this longest Remained on enigma but now it has been identified as holo mosphic pasts of means forms. His numerous assertions in mathematics Concepts openedup new Ustar of mathematical research for instance his conjecture of sine of face function that has distinct modules form in Theory of modular torms



Azyabhatta Aggebletter Was an occlaimed mathematician astronomet. He Was bour in trusumapula (present day patie) is bihas, India this contribution to mathematters, Silence and asternamy is immense and get this not been anaded the enognition is the World history of Science At the age of us, be Weste his formed Acya bhaliya". He was arcree of the carept of Lero, as Well as the use of large numbers up to rois. He was the first to Calculate the Viches fourth declinal point. He denised the formula for calculating areas of teiningles and cicles.



-	ന്യാക്കുകൾ സ്മാം
	60  and  and = 1  and  and 60  alvals = 1  and  and
	$24 a \partial $
	30 Aamo = 12000
	12 QDONO = 100000000000000000000000000000000000
	365 Bano = 1000000
	10  adoption  = 1  Browningo
	100  appelo = 1000000  Bo
	1000  orange  = 1  orange

തുക്ക പ്രേഷത്)

16 3 mont = 1 mont

14 2 m m = 1 - = 8

ද . එහි = | එහෙහංගං

4 200000

20 ഗത ആക്കാ

2240 2mms

10 0000 eso al 1 092 d

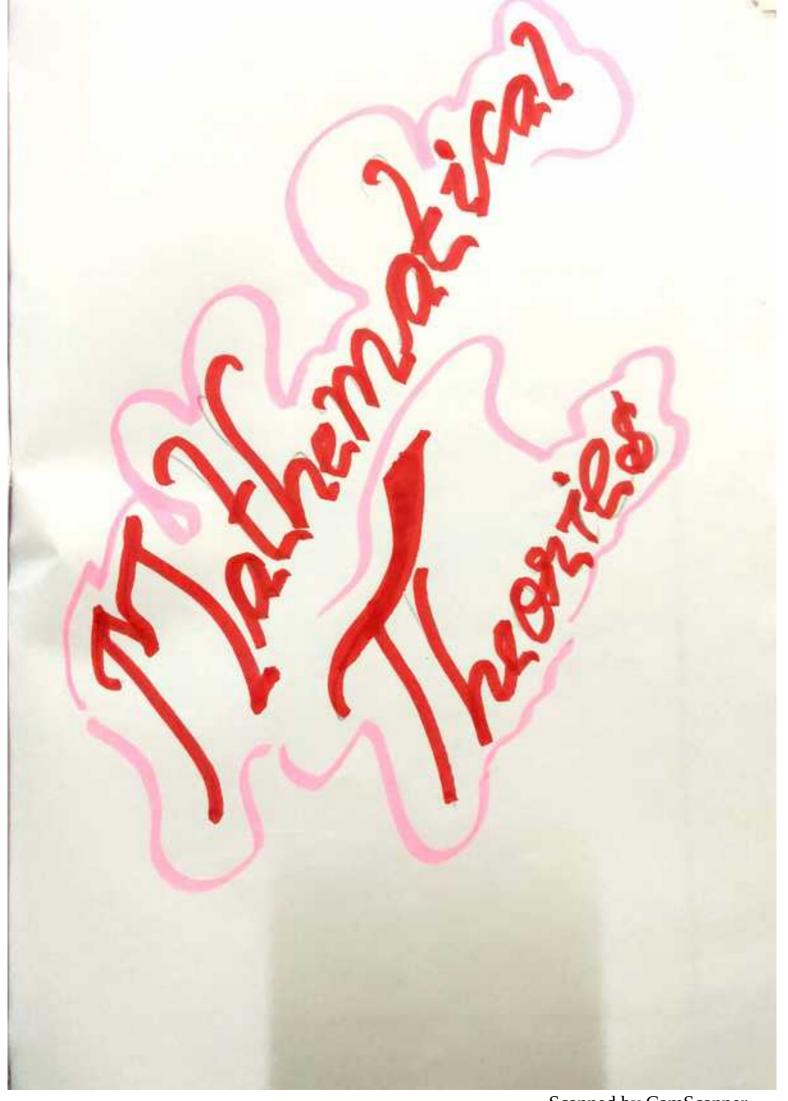
1 alad

= 1 error togendo= 1 sondo= 1 sondo

= 1 -2. 2.

= 100 anv.d. = 1000 D.D.

= 1000 822



കണക്കിലെ വാക്യങ്ങൾ (a+b)(c+d) = ac + ad + bc + bd= a + 2ab + b (a+6) = a - b = a - 2ab + b (a+b)(a-b)? കുറ്റണ്ണവുപ്പം പാദവുപ്പം പാദവുപ്പം പാദവുപ്പം പാദവുപ്പം പാദവും പാദവുപ്പം പാദവുപ്പം പാദവുപ്പം പാദവുപ്പം പാദവുപ്പം ത്രിക്കോണന്തിന്റെ പിസ്തീപ്പണാ = = x ~1)BO x = 3 bb. മട്ടന്തികോണന്തിന്റെ വിസ്നിർണം = the [b. 130, b. 2mm വൃത്തന്തിന്റെ വിസ്തിർണാ TTY വ്യന്താന്തിന് പരിയി c : Trd.



MATHS ABOUT ME Number number all around, Everypohene they can be found, Numbers tell how ald I am And how many people in my fam. How much I weight and just how tall When I live, and that's not all ! Numbers are a part of me Money, time and history. When its wake up and when to eat. What size shoes to lay for my feet. New much money competing coasts. A number to call if my deg gits loss I don't know where I would be If numbers record a part of me

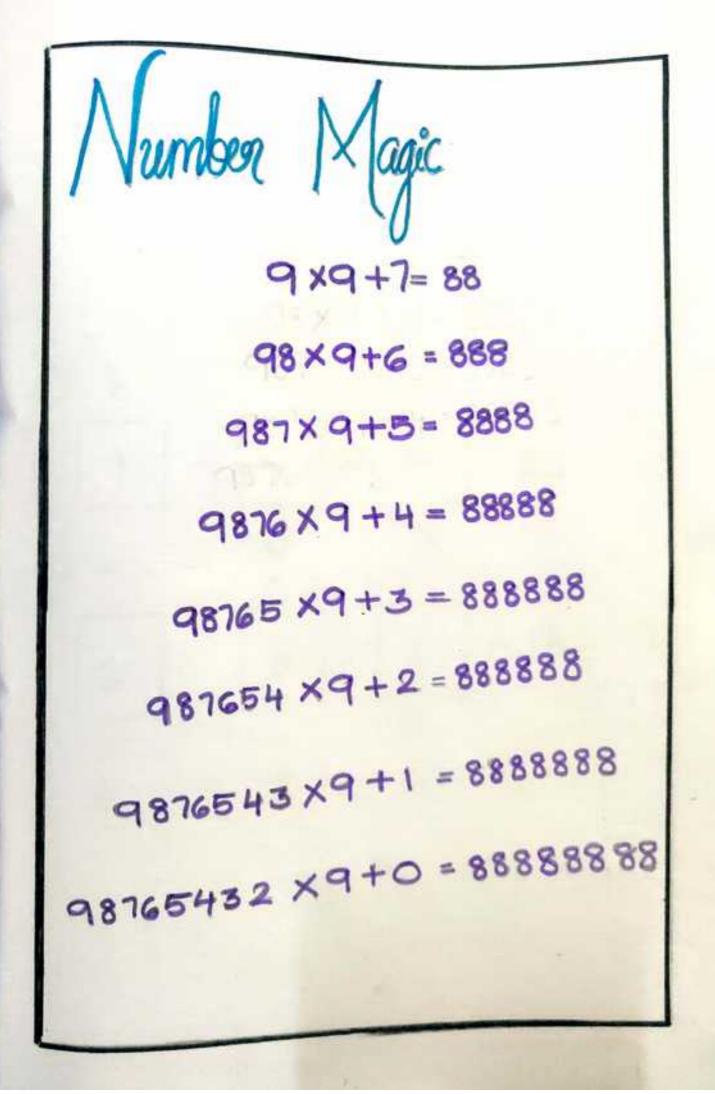
A Challenge Tony, try and try The more I tay. I practice maths with my heart and Soul, Yet I con not able to achieve my goal. I never get marks in maths, Inspite of my great enducivors fate to never in my favour, I really ulant to improve my maths because I love this Subject and for this Lam trying my level best Lam Landid So Lonfess, In mathematics examination 1 always create a mess, all the ansulers 1 guess, and altimately

The marks I get are quite less. I believe that if I do ample Practice, I will one day probably achieve my goal and I Seriously have to improve, because in our lines maths Plays a very Significant note ...,



moal ens\_1/00 |xq+2 = 1| $12 \times 9 + 3 = 111$ 123×9+4=1111 1234 ×9+5=1111 12345 ×9+6= 11111 123456×9+7 = 111111 1234567×9+8 = 1111111 12345678×9+9=1111111

Scanned by CamScanner



$$\begin{bmatrix}
 1 \\
 + 5 \\
 - 2 \\
 + - \\
 + - \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - + \\
 - = + \\
 - = + \\
 - = + \\
 - = + \\
 - = + \\
 - = + \\
 - = = \\
 - = = \\
 - = = \\
 - = \\
 - = + \\
 - = = \\
 - = = \\
 - = \\
 - = = \\
 - = = \\
 - = \\
 - = = \\
 - = \\
 - = = \\
 - = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 - = = \\
 -$$

999999×1=999999 999999×2=199998 999999×3=2999997 999999×4=3999996 999999×5=4999995 999999×6=59999994 999999×6=59999994 999999×8=7999993 999999×8=7999992



