

International Discovery of Ali π

Discovered and Proved By:



Syed Abul Hassan

Ex. Asst. Commissioner (Income Tax)

BSc.(Civil) Engr. (UET)

MCSE, MCDBA, CCNA (USA)

Famous Quotations on Circle, Pi and Mathematics

Knowledge and Mathematics

"Knowledge has ten parts, nine parts are the knowledge of mathematics and one part is the other knowledge."

Muhammad - Last Prophet of Islam

Discovery of Real and Rational Pi

“The real voyage of discovery consists not in seeking new landscapes but in having new eyes.”

Marcel Proust

Discovery of Ali Pi from outside

“Amazingly, lack of formal education can be an advantage. We get stuck in our old ways. Sometimes, progress is made when someone from the outside looks at mathematics with new eyes.”

Doris Schattschneider, Los Angeles Times

π by Super Brain or

π by Super Computer

“The matter of the normalcy or non-normalcy of pi will never, of course, be resolved by electronic computers. We have here an example of a theoretical problem which requires profound mathematical talent and cannot be solved by computations alone. The existence of such problems ought to furnish at least a partial antidote to the disease of computeritis, which seems so rampant today.”

Howard Eves, Mathematical Circles Revisited, 1971

Exploring π

“Exploring Pi is like exploring the universe.”

David Chudnovsky

Pi is like ocean of perfect numbers

“It’s more like exploring underwater. You’re in the mud, and every thing looks the same.”

Gregory Chudnovsky

Universal Pi

**“This mysterious pi which comes in
at every door and window, and
down every chimney.”**

Augustus De Morgan, A Budget of Paradoxes

Perfect Circle and π

“The circle is one of the noblest representation of the Deity, in his noble works of human nature. It bounds, determines, governs, and dictates space, bounds latitude and longitude, refers to the sun, moon, and all the planets, in direction, brings to the mind thoughts of eternity, and concentrates the mind to imagine for itself the distance and space it comprehends. It rectifies all boundaries; it is the key to information of the knowledge of God.”

John Davis – The Measure of the Circle, 1854

Mysterious π

“Probably no symbol in mathematics has evoked as much mystery, romanticism, misconception and human interest as the number pi.”

**William L. Schaaf
(Nature and History of Pi)**

Pi is a mystery

“Pi is not just a collection of random digits. Pi is a journey, an experience; unless you try to see the natural poetry that exists in pi, you will find it very difficult to learn.”

Antranig Basman

Aristopenes and Squaring the Circle

There is a reference in a play *Birds*, written by Aristopenes in about 414 B.C.

“Meton responded to Peisthetaerus: Well I now apply the straight rod – so – thus **squaring the circle**: and there you are. In the center you have your market place: straight streets leading into it, from here, from here, from here. Very much the same principle, really, as the rays of a star: the **star itself is circular, but sends out straight rays in every direction.**”

Popularity of Squaring the Circle

Mathematician Keith Devlin writes in his article about the popularity of squaring the circle as:

“Mathematicians who speak on the radio or write for a local or national newspaper generally find their brief moments of fame results in a small postbag of letters from individuals who claim to have solved some major mathematical problem. In my experience, **Fermat’s Last Theorem and Squaring the Circle** easily top the list. Having just completed a small blitz of media appearances surrounding the publication last fall of my new book, *The Millennium Problems*, I have received a number of Fermat proofs and circle squaring attempts.”

Role of π in our world

Chris Witcombe from Sweet Briar College writes in his article on Pi as:

“Physicists have noted the ubiquity of pi in nature. Pi is obvious in the disks of the moon and the sun. The double helix of DNA revolves around pi. Pi hides in the rainbow, and sits in the pupil of the eye, and when a raindrop falls into water pi emerges in the spreading rings. Pi can be found in waves and ripples and spectra of all kinds, and therefore pi occurs in colors and music. Pi has lately turned up in superstrings.

Pi occurs naturally in tables of death, in what is known as a Gaussian distribution of deaths in a population; that is, when a person dies, the event ‘feels pi’. It is one of the great mysteries why nature seems to know mathematics.”



- Symbol of Our Perfect Spherical Universe

Mathematician Paul writes on Pi as:

“Pi is fundamental to the way in which our universe functions; *practically everything is dependent on Pi* at some basic level: light, sound, energy, gravity, electromagnetic fields, matter itself.....In fact pi is so central that it can be seen as a *symbol of our universe*.

Pi represents an omniscience which we will never possess, but that we can nudge closer and closer to as we approach its true value. Calculating pi as a rational value or exact or real value is a quest parallel to trying to fully understand our universe. It is for this reason that we wish to calculate pi to millions of places and beyond.”

Creation of Earth in Six-6 Days According to Bible and Quran

“Lo! Your Lord is Allah Who created the heavens and the earth in Six Days, then mounted He the throne.”

Quran-(Chapter- 7, Verse- 54)
– Last Holy Book of Islam

It is written in Exodus 20.19f as:

“*Six days* shalt thou labor, and do all thy work....For in *six days* the LORD made heaven and earth, the sea, and all that in them is, and rested the seventh day: wherefore the LORD blessed the Sabbath day, and hallowed it.”

Bible – Exodus 21.19f

“The *Sabbath* was decreed only for those who had differed about it: and your Lord will judge them on the Day of Resurrection regarding their disputes.”

Quran (Chapter – 16, Verse 124)

Squaring the Circle and π

“The Squaring of the Circle is of great importance to the geometer-cosmologist because for him the **circle** represents pure, unmanifest spirit-space, while the **square** represents the manifest and comprehensible world. When a **near-equality** is drawn between the circle and square, the **infinite** is able to express its dimensions or qualities through the **finite.**”

Robert Lawlor, Sacred Geometry, 1982

Reference: The Joy of Pi by David Blatner;Pg-95

Perfect Geometry

“Geometry enlightens the intellect and sets one’s mind right. All of its proofs are very clear and orderly. It is hardly possible for errors to enter into geometrical reasoning, because it is well arranged and orderly. Thus, the mind that constantly applies itself to geometry is not likely to fall into error. In this convenient way, the person knows geometry acquires intelligence.”

Ibn Khaldun

Perfect Mathematics and Order

“All things began in Order, so shall they end, and so shall they begin again, according to the Ordainer of Order, and the mystical mathematics of the City of Heaven.”

Sir Thomas Brown

Pi – Most famous ratio

“Pi, which is denoted by the Greek letter, is the most famous ratio in mathematics, and is one of the most ancient numbers known to humanity. Pi has had various names through the ages, and all of them are either words or abstract symbols.”

Chris Witcombe from Sweet Briar College

Mathematical truths

“I imagine that whenever the mind perceives a mathematical idea, it makes contact with Plato’s world of mathematical concepts.....When mathematicians communicate, this is made possible by each one having a direct role to truth, the consciousness of each being in a position to perceive mathematical truths directly, through the process of ‘seeing’.”

Roger Penrose

Dr. Peter's Book – 'God's Secret Formula' and 19

“ I understand that nature strictly divided the stable elements according to the type of their divisibility in **four nineteenth** columns. It assigned a twentieth number to each of the four categories, that stands in the table over this nineteen numbers, without violating the **'Nineteen rule'** which regulates the divisibility. The coding effect of the number 19 is distinct and clear. The whole system is subject to one **19-Code system.**”

Judaism – Torah and Numbers

- Rabbi Moshe ben Nachman writes about the encoding of Torah as:

“Everything that was transmitted to Moses our teacher through the **forty-nine gates of understanding** was written in the Torah explicitly or by implication in words, in the numerical value of the letters or in the form of the letters, that is, whether written normally or with some change in form, such as bent or crooked letters, and other deviations.....”

(Ramban 1971, Vol.1, p. 10)

$7 \times 7 = 49 -- 4 + 9 = 13....6^{\text{th}}$ Prime Number

Perfect Role of Six – 6 in Religions and Cultures

'These works are recorded to have been completed in **six** days....because six is a perfect number.....because the perfection of the works was signified by the number **six**. For the number six is the first to be made up of its own parts, i.e., of its sixth, third and half, which are respectively one, two and three, and which make a total of six.'

(St. Augustine)

Bible and Numbers

“The Hebrew Bible often speaks the language of numbers and measurements.”

Feldman 1965

Bible and



A little known verse of the Bible reads and mentions about Pi:

“And he made a molten sea, ten cubits from the one brim to the other: it was round all about and his height was five cubits: and a line of thirty cubits did compass it about.”

(I Kings 7, 23)



$$= 30/10 = 3 \text{ (Approx.)}$$

Bible and Number – 6

It is written in **Exodus 20.19f** as:

“**Six** days shalt thou labor, and do all thy work....For in **Six** days **the LORD** made heaven and earth, the sea, and all that in them is, and rested the **seventh day**: wherefore the LORD blessed the Sabbath day, and hallowed it.”

Holy Quran and 19

"Over it is Nineteen. We appointed angels to be guardians of Hell, and we assigned **THEIR NUMBER (i.e. 19)** to disturb the disbelievers, to convince the Christians and Jews (that this is **a divine scripture**), to strengthen the faith of the faithful, to remove all traces of doubt from the hearts of Christians, Jews, as well as the believers, and to expose those who harbor doubt in their hearts, and the disbelievers; they will say, "What did God mean by this allegory?" God thus sends astray whomever He wills, and guides whomever He wills, None knows the soldiers of your Lord except He. **This is a reminder for the people.** Absolutely, (I swear) by the moon. And the night as it passes. And the morning as it shines. **This is one of the great miracles. A warning to the human race.** For those among you who wish to advance or regress."

Holy Quran (Chapter – 74, Verse – 30-31)

Wisdom of Creator of Universe

Hrovista of Gondersheim says:

“This discussion would be unprofitable if it did not lead us to appreciate the wisdom of the our Creator, and the wondrous knowledge of the Author of the world, Who in the beginning created the world out of nothing and set everything in number, measure and weight, and then in time and age of man formulated a science which reveals fresh wonders the more we study it.”

Wisdom and Mathematics

“Whoever despises the high wisdom of mathematics nourishes him self on delusion and will never still the sophistic sciences whose only product is an eternal uproar.”

Leonardo da Vinci

Origin of Mathematics

“Mathematics.....would certainly have not come into existence if one had known from the beginning that there was in nature no exactly straight line, no actual circle, no absolute magnitude.”

Friedrich Nietzsche – Human, All Too Human

God and Pi

“God is in the details, for mathematicians have plunged deeper and deeper within Pi’s digits with a religious fervor, hoping to find even a hint of understanding.”

Architect Mies van der Rohe

God and Geometry

"God ever geometrizes"

Plato

Universal application of Pi

“This mysterious pi which comes in at every door and window, and down every chimney.”

Augustus De Morgan, A Budget of Paradoxes

Pi and Computers

“The mysterious and wonderful pi is reduced to a gargle that helps computing machines clear their throats.”

Philip J. Davis, *The Lore of Large Numbers*

Pi – Is there any pattern of numbers

“There’s a beauty to pi that keeps us looking at it.....The digits of pi are extremely random. They really have no pattern, and in mathematics that’s really the same as saying they have every pattern.”

Peter Borwein, 1996

System in Pi

“To ask for the system in pi is like asking, “Is there life after death?” When you die, you’ll find out.”

Richard Preston, *The Mountains of Pi*

Pi and Occult Geometry

“It is utterly impossible for one to accomplish the work in a physical way; it must be done metaphysically and geometrically, not mathematically. When approached in this manner the problem is easy of solution. It is stated by occultists that the number 12 squares the circle and it is necessary to take into consideration the process before we can understand this; when correctly understood we know it to be perfectly true.”

A. S. Raleigh, Occult Geometry, 1932

Story of Pi

“The story of pi reflects the most seminal, the most serious and sometimes the silliest aspects of mathematics. A surprising amount of the most important mathematicians and a significant number of the most important mathematicians have contributed to its unfolding – directly or otherwise.”

**L.Berggren, J.Borwein and P.Borwein,
'Introduction to Pi'**

Mathematics and God

“Mathematics is the language with which God created the universe.”

Galileo

Circles and Squares

“Circles are to one another as the squares on their diameters.”

Euclid, Elements, 122

Mathematics and Common sense

“When the Greek philosophers found that the square root of 2 is not a rational number, they celebrated the discovery by sacrificing 100 oxen. The much more profound discovery that pi is a transcendental number deserves a greater sacrifice. Again mathematics triumphed over common sense.”

Edward Kasner and James Newman, Mathematics and the Imagination

Infinite Decimals and Pi

“Ten decimals are sufficient to give the circumference of the earth to the fraction of an inch, and thirty decimals would give the circumference of the whole visible universe to a quantity imperceptible with the most powerful microscope.”

Simon Newcomb, quoted in Mathematics and the Imagination by Edward Kasner and James Newman

360 and 359th Digit of Existing Pi

“Since there are 360 degrees in a circle and pi is intimately connected with the circle, we eagerly look at the 360th digit. Again we are rewarded with the most remarkable fact. At the 359th digit, we find 360. Thus 360 is ‘centered’ over the 360th digit.”

Monte Zenger – ‘The Magic of Pi,’ - 1979

Computing Pi and Computers

“Computing Pi is the ultimate stress test for a computer – a kind of digital cardiogram.”

Ivars Peterson, Islands of Truth, 1990

Universe and Circles

“The universe was made on purpose, the circle said. In whatever galaxy you happen to find yourself, you take the circumference of a circle, divide it by its diameter, measure closely enough, and uncover a miracle -- another circle, drawn kilometers down stream of the decimal point.....As long as you live in this universe, and have a modest talent for mathematics, sooner or later you’ll find it.”

Carl Sagan, Contact

Pi and Irrational digits

“Think of games for children. If I give you the sequence one, two, three, four, five, can you tell me what the next digit is? Even a child can do it: the next digit is six. How about this game? Three, one, four, one, five, nine. Just by looking at that sequence, can you tell me the next digit?”

Richard Preston, 'The Mountain of Pi', The New Yorker

Pi is like exploring underwater

“Pi is more like exploring underwater. You’re in the mud, and every thing looks the same.”

Gregory Chudnovsky

Pi and its computation

“If we take the geometrical relations, the thousandth decimal of pi sleeps there, though no one may ever try to compute it.”

William James, The Meaning of Truth

Challenging Pi's Irrationality

“What good is your beautiful investigation regarding π ? Why study such problems, since irrational numbers do not exist?”

Leopold Kronecker to Ferdinand von Lindemann in 1882, the same year Lindemann proved the transcendence of pi.

Mathematics and Circle

“Mathematics.....would certainly have not come into existence if one had known from the beginning that there was in nature no exactly straight line, no actual circle, no absolute magnitude.”

Friedrich Nietzsche, Human, All Too Human

π and Algebra

“It is probable that the number π is not even contained among the algebraical irrationalities, i.e., that it cannot be a root of an algebraical equation with a finite number of terms, whose coefficients are rational. But it seems to be very difficult to prove this strictly.”

A. M. Legendre, Elements de geometrie, 1794

Alexander Pope's poem – 'Dunciad'

**"Mad Mathesis alone was unconfined,
Too mad for mere material claims to
bind,
Now to pure space lifts her ecstatic
stare,
Now, running round the circle, finds it
square."**

**The famous English Poet, Alexander Pope wrote in his 1743
poem, 'Dunciad'**

Magic of π number

“When we think of π , let’s not always think of circles. It is related to all the odd whole numbers. It also is connected to all the whole numbers that are not divisible by the square of a prime. And it is part of an important formula in statistics. These are just a few of the many places where it appears, as if by magic. It is through such astonishing connections that mathematics reveals its unique and beguiling charm.”

Sherman K. Stein, Strength in Numbers

Early Circle-squarer

“With the straight ruler I set to work. To make the circle four-cornered.”

Aristophanes, The Birds (414 BC)

Circle can be Squared

“The circumference of any circle being given, if that circumference be brought into the form of a square, the area of that square is equal to the area of another circle, the circumscribed square of which is equal to the area of the circle whose circumference is first given.”

John A. Parker, The Quadrature of the Circle, 1874

Pyramid of Circle, Square and Triangle having equal Areas

“Now being in my 81st year.....I found time to set my thinks to work. After three long days I was divinely blessed to discover the true and ancient value of Pi. This is the exact value used by the Great Creator when he created our earth and its four orbit cycles. The World’s unsolved problem, i.e., the complete interlocking of a triangle, circle and square—having equal areas – is in the construction of this Pyramid.”

Francis Michael Darter, The Story of True Pi, 1962

Reward for detection of any error in circling the square

Augustus De Morgan tells us in his Budget of Paradoxes that the eighteenth-century Frenchman **Joseph-Louis Vincens de Mouleon de Causans** 'cut a circular piece of turf, squared it, and deduced original sin and Trinity. He found out that the circle was equal to the square in which it is inscribed, and he offered a reward for detection of any error, and actually deposited 10,000 francs as earnest of 300,000. But the courts would not allow anyone to recover.

Famous poem on Pi

**'Tis a favorite project of mine
A new value of pi to assign.
I would fix it at 3
For it's simpler, you see,
Than 3 point 1 4 1 5 9.'**

Harvey L. Carter, quoted by W.S.Baring-Gould, in *The Lure of the Limerick*

Calculation of the area of a circle

“Of course, if we know the area of the circle, it is easy to find the side of a square of equal area; this can be done by simply extracting the square root of the area, provided the number is one of which it is possible to extract the square root.

Thus, if we have a circle which contains 100 square feet, a square with sides of 10 feet would be exactly equal to it. But the ascertaining of the area of the circle is the very point where the difficulty comes in; the dimensions of circles are usually stated in the lengths of the diameters, and when this is the case, the problem resolves itself into another, which is: To find the area of a circle when the diameter is given.”

John Pinn, The Seven Follies of Science, 1912

Dangers of learning many digits of Pi

“Learning many digits of pi carries with it certain severe dangers, and can do mental damage that takes a long time to heal. The mind knows perfectly well that learning digits of pi is not something to its benefit, and is likely to take severe retaliation against you once it works out what you are doing.....If you start to feel these effects, stop learning immediately.”

Universal Pi – no pattern to its digits

“Pi is an ideal number for an exhibition such as memorizing numbers because it has no pattern to its digits.”

Gregory Pinney, Minneapolis- St. Paul Star Tribune

Simplified programs of computers with correct value of Pi

“The primary purpose of the DATA statement is to give names to constants; instead of referring to pi as 3.141592653589793...at every appearance, the variable Pi can be given that value with a DATA statement and used instead of the longer form of the constant. This also simplifies modifying the program, should the value of pi change.”

Brahmagupta and values of Pi

Brahmagupta, in the seventh century C.E., wrote that the 'practical' value for pi was 3 and the 'neat' value was $\sqrt{10}$.

Poem on calculation of Pi digits by Shanks

**Seven hundred seven,
Shanks did state,
Digits of π he would calculate
And none can deny
It was a good try
But he erred in five
twenty-eight.**

Nicholas J. Rose

Mathematics and Universe

“The mathematical rules of the universe are visible to men in the form of beauty.”

John Michel

Life is a series of cycles and wheels

“I’m one of those people who believe that life is a series of cycles – wheels within wheels, some meshing with others, some spinning alone, but all of them performing some finite, repeating function.”

Stephen King, Four past Midnight

Great Discovery

“No great discovery was ever made without a bold guess.”

Isaac Newton

Math is a perfection

“Math is a perfection in expression, like ballet or a shaolin class martial art.”

V. Guruprasad

Mathematics and Infinity

“Mathematics is the only infinite human activity. It is conceivable that humanity could eventually learn everything in physics or biology. But humanity certainly won't ever be able to find out everything in mathematics, because the subject is infinite. Numbers themselves are infinite.”

Paul Erdos

Mathematician's Eye

“The mathematician's eye is a mystic mirror, not only reflecting reality but absorbing it.”

Dr. Francis O. Googol

World and Order

“The external world exists; the structure of the world is ordered; we know little about the nature of the order, nothing at all about why it should exist.”

Martin Gardner, “Order and Surprise”

Geometry and Creator

“I believe the geometric proportion served the creator as an idea when He introduced the continuous generation of similar objects from similar objects.”

Johannes Kepler

Nature of the Universe

“If we wish to understand the nature of the Universe we have an inner hidden advantage; we are ourselves little portions of the universe and so carry the answer within us.”

Jacques Boivin, The Heart Single Field Theory

Beauty is the first test of Mathematics

“The mathematician’s patterns, like the painter’s or the poet’s, must be beautiful; the ideas, like the colours or the words, must fit together in a harmonious way. Beauty is the first test: there is no permanent place in the world for ugly mathematics.”

G.H.Hardy, A Mathematician’s Apology

Earth's Orbit and Circle

“The Earth’s orbit is the measure of all things; circumscribe around it a dodecahedron and the circle containing this will be Mars; circumscribe around Mars a tetrahedron, and a circle containing this will be Jupiter; circumscribe around Jupiter a cube, and the circle containing this will be Saturn. Now inscribe within the Earth an icosahedron, and the circle contained in it will be Venus; inscribe within Venus an octahedron, and the circle contained in it will be Mercury. You now have the reason for the number of planets.”

Johannes Kepler

God is a pure mathematician

“All the pictures which science now draws of nature and which alone seem capable of according with observational fact are mathematical pictures.....From the intrinsic evidence of his creation, the Great Architect of the Universe now begins to appear as a pure mathematician.”

James H. Jeans, Mysterious Universe

Number and Universe

“Number is the bond of the eternal continuance of things.”

Plato

Mathematics of Future

“On the basis of my historical experience, I fully believe that mathematics of the twenty-first century will be as different from that of today as the latter is from that of the sixteenth century.”

George Sarton, A History of Science, 1959

Pursuit of Mathematics

“The pursuit of mathematics is a divine madness of the human spirit.”

Alfred North Whitehead, Science and the Modern World

Perfection and Mathematics

“Man ever seeks perfection but inevitably it eludes him. He has sought ‘perfect numbers’ through the ages and has found only a very few – twenty – three up to 1964.”

Albert H. Beiler, Recreations in the Theory of Numbers

Mathematics and Divine

“Mathematical inquiry lifts the human mind into closer proximity with the divine than is attainable through any other medium.”

Hermann Weyl (1885 – 1955)

Is Irrational Pi a Great Truth?

“A Great Truth is a statement whose opposite is also a great truth.”

Niels Bohr

Pi - Finite or Infinite?

**“Mathematics is a war
between finite and infinite.”**

Dr. Francis Googol

Pi is Pure Mathematics

"Pure mathematics is a religion."

Friedrich von Hardenberg, 1801

Pi and Infinity

“The study of the infinite is much more than a dry, academic game. The intellectual pursuit of the Absolute Infinite is a form of the soul’s quest for God. Whether or not the goal is ever reached, an awareness of the process brings enlightenment.”

Rudy Rucker, *Infinity and the Mind*

Is there any Pattern of Numbers in Transcendental and Irrational Pi?

“The ants and their semi fluid secretions teach us that pattern, pattern, pattern is the fundamental element by which the creatures of the physical world reveal a perfect model of the divine ideal.”

Don DeLillo, Ratner's Star

**Is Irrational Pi expresses any
thought of God?**

**“An equation for me has no
meaning unless it expresses a
thought of God.”**

Ramanujan (Hoffman 1998, 85)

Mathematics and Eternity

“Nothing has afforded me so convincing a proof of the unity of the Deity as these purely mental conceptions of numerical and mathematical science which have been by slow degrees vouchsafed to man, and are still granted in these latter times by the Differential Calculus, now superseded by the Higher Algebra, all of which must have existed in that sublimely omniscient Mind from eternity.”

Mary Somerville

Geometry and Plato

“Let no one ignorant of geometry enter my door.”

(Plato, The Republic)

Mathematics and Arts

“It is here in mathematics that the artist has the fullest scope of his imagination.”

Havelock Ellis – The Dance of Life

Whether our Universe is ruled by Irrational Pi or Rational Pi ?

“It has been said that figures rule the world. Maybe, but I am sure that figures show us whether it is being ruled well or badly.”

Goethe

Beauty in Mathematics

“Mathematics possesses not only truth, but supreme beauty- a beauty cold and austere, like that of a sculpture.”

Bertrand Russell in 'The study of Mathematics in Mysticism and Logic:'

Pure Mathematics

“The Science of Pure Mathematics in its modern development may claim to be the most original creation of the human spirit.”

Alfred North Whitehead

Knowledge of mathematics

“For the things of the world cannot be made known without knowledge of mathematics.”

Roger Bacon

Importance of mathematics

“Omnia apud me mathematica fiunt: With me everything turns into mathematics.”

Descartes

Number theorists

“Number theorists are like lotus-eaters – having once tasted of this food they can never give it up.”

Leopold Kronecker

Clarity of mathematics

“Mathematics is the science of what is clear by itself.”

Carl Jacobi

Mathematical proofs

“A proof tells us where to concentrate our doubts.”

Morris Kline

Order in Universe and Mathematics

“The mathematical sciences particularly exhibit order, symmetry and limitation; and these are the greatest forms of the beautiful.”

Aristotle

Numbers and Humans

“The numbers are a catalyst that can help turn raving madmen into polite humans.”

Philip J. Davis

God and Integers

**“God made the integers, all
the rest is the work of man.”**

Leopold Kronecker in Bell, Men of Mathematics, p. xv.

Mathematics and human spirit of life

“Mathematics is the handwriting on the human consciousness of the very Spirit of Life itself.”

Claude Bragdon

Numbers and mankind

“Numbers are intellectual witnesses that belong only to mankind.”

Louis Lambert in Honore De Balzac

Knowledge of Geometry and Eternity

“The knowledge of which geometry aims is the knowledge of the eternal.”

Plato

Mathematics and real world

“There is no branch of mathematics, however abstract, which may some day be applied to phenomenon of the real world.”

Nikolai Lobatchevsky

Numbers and beauty

“Wherever there is number, there is beauty.”

Proclus - 410 – 485 AD

Authentication of Ali π by a famous mathematician- John Davis

" I have found by the operation of figures, that this proportion is as 6 to 19. Now, in order to make a ratio, I divide the 19 by 6, which gives 3.166666.....I am asked what evidence I have to prove that the proportion the diameter of a circle has to its circumference is as 6 to 19? I answer, there is no other way to prove that an apple is sour, and why it is so, than by common consent."

John Davis, The Measure of the Circle, 1854

Authentication of Ali π by a famous mathematician- John Davis

“ I find the value of **3.16666....** by multiplying by 3, which brings it into whole numbers, **9½** . This is a ratio will answer for whole numbers in all cases, because it finds the substance of both dividend and divisor. My proportion of the **diameter to the circumference is perfect**, and that being perfect, makes my ratio perfect. But any ratio to be derived from **7 to 22 would be imperfect**, in as much as the proportion is imperfect.”

John Davis, The Measure of the Circle, 1854

Practical Application of 3.166..... by a Mechanic of New Jersey

“ I have wrought as a mechanic for twenty years, and in some of my mechanical operations I have found it very difficult to match my work from the proportion of as **7 to 22**, and by experimental operations, I came to the measure of **3 times the diameter, and 1/6**, and from this I have found no difficulty in matching my work; and when Mr. Davis told me that **3 and 1/6 times the diameter** was his proportion, I was satisfied that his measure was correct.”

A Mechanic of Paterson, N.J.

Reference: Testimonials in Measure of the Circle - by John Davis Page - 155

Mysterious Hidden For Centuries



“This measure will and must prove a great benefit to mankind, when understood, as it is the basis and foundation of mathematical operations, for, without a perfect quadrature of the circle, measures, weighs, etc, must still remain hidden and unrevealed facts, which are and will be of great importance to rising generations. The improvements that will arise from this measure fifty years hence I cannot paint in imagination”

John Davis, The Measure of the Circle, 1854

Total Slides of 'Quotations on Pi'

Quotations on Pi = 114

$$114 = 6 \times 19$$

$$114 = 2 \times 3 \times 19$$

2 ----- 1st Prime Number

3 ----- 2nd Prime Number

19 ----- 8th Prime Number

114 ---- 2 x 3 x 19 ---- (1st x 2nd x 8th) Primes

$$114 \text{ ----- } 16$$

16..... becomes 19 when written upside down

16 ----- 9th Even Number ----- 2^4 ----- 4^2

16 ----- $1 + 6 = 7$ Perfect Eternal Number

Perfect Ali Pi = 3.16.....

Presentation Made By:

Amna Khan

(BCS -Hons., UET)

Specialization

Java and Web Designing

Contact: amna.cs@gmail.com

Website Made By:

Atif Nazeer

Contact: info@interface.net.pk