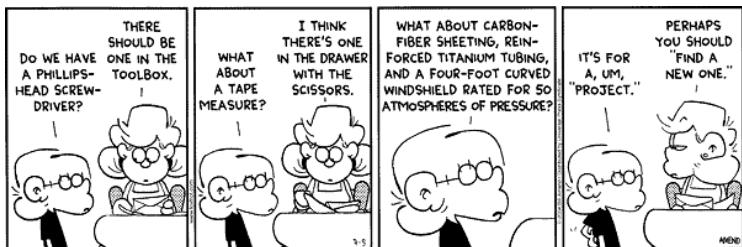


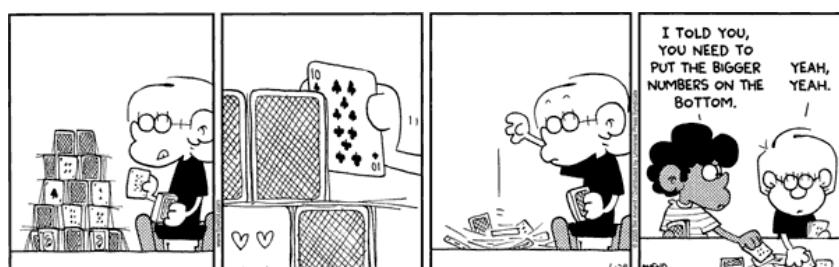


Rudi Mathematici

$$x^4 - 8192x^3 + 25163864x^2 - 34351710208x + 17583965554320 = 0$$



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52	1	D	(1803) Guglielmo LIBRI Carucci dalla Sommaja (1878) Agner Krarup ERLANG (1894) Satyendranath BOSE (1912) Boris GNEDENKO
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IMO 1959 - 1

Provare che

$$\frac{21n+4}{14n+3}$$

è irriducibile per qualsiasi valore del numero naturale n .

La matematica è il 40% formule, il 40% dimostrazione e il 40% immaginazione

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"The proof of the Hilbert Basis Theorem is not mathematics; it is theology."

Camille JORDAN

"It's very good jam," said the Queen.

"Well, I don't want any to-day, at any rate."

"You couldn't have it if you did want it," the Queen said. "The rule is jam tomorrow and jam yesterday but never jam to-day."

"It must come sometimes to "jam to-day," Alice objected.

"No it can't," said the Queen. "It's jam every other day; to-day isn't any other day, you know."

"I don't understand you," said Alice. "It's dreadfully confusing."

Charles DOGSON

"Mathematics is a game played according to certain simple rules with meaningless marks on paper."

David HILBERT

"A mathematician's reputation rests on the number of bad proofs he has given"

Abram BESICOVITCH

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	24	V	(1861) Alfred North WHITEHEAD
	25	S	(1946) Douglas HOFSTADTER
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			(1591) Girard DESARGUES
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			(1903) Frank Plumpton RAMSEY
			(1583) Jean-Baptiste MORIN
			(1951) Shigeumi MORI
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			(1827) Henry WATSON
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			(1735) Alexandre Theophile VANDERMONDE
			(1860) Herman HOLLERITH

IMO 1959 - 2

Per quali valori reali di x è

$$\sqrt{x + \sqrt{2x - 1}} + \sqrt{x - \sqrt{2x - 1}} = A,$$

posto:

$$A = \sqrt{2},$$

$$A = 1,$$

$$A = 2,$$

quando solo valori non negativi sono ammessi nelle radici quadrate e quando delle radici si consideri sempre il valore non negativo?

...è stato scoperto un nuovo numero primo, quattro volte più grande del record precedente.

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"Common sense is not really so common"

Antoine ARNAUD

"Archimedes will be remembered when Aeschylus is forgotten, because languages die and mathematical ideas do not. "Immortality" may be a silly word, but probably a mathematician has the best chance of whatever it may mean."

Godfried HARDY

"it would be better for the true physics if there were no mathematicians on earth"

Daniel BERNOULLI

"Epur si muove"

Galileo GALILEI

"Euler calculated without effort, just as men breathe, as eagles sustain themselves in the air"

Dominique ARAGO

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13	29	M	(1825) Francesco FAA` DI BRUNO (1873) Tullio LEVI-CIVITA (1896) Wilhelm ACKERMAN
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IMO 1959 - 3

Siano a, b, c numeri reali. Data l'equazione per $\cos x$:

$$a \cos^2 x + b \cos x + c = 0,$$

formare un'equazione quadratica in $\cos 2x$ le cui radici abbiano gli stessi valori in x . Confrontare le equazioni in $\cos x$ e $\cos 2x$ per:

$$a = 4,$$

$$b = 2,$$

$$c = -1.$$

La matematica è come l'amore. L'idea di partenza è semplice, poi tutto diventa complicato

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"And what are these fluxions? The velocities of evanescent increments? They are neither finite quantities, nor quantities infinitely small, nor yet nothing. May we not call them ghosts of departed quantities?"

George BERKELEY

"Common sense is nothing more than a deposit of prejudices laid down in the mind before you reach eighteen."

Albert EINSTEIN

"We [he and Halmos] share a philosophy about linear algebra: we think basis-free, we write basis-free, but when the chips are down we close the office door and compute with matrices like fury."

Irving KAPLANSKY

"A Mathematician is a machine for turning coffee into theorems."

Paul ERDOS

"What we know is not much. What we do not know is immense."

Pierre Simon de LAPLACE

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IMO 1959 - 4

Data la lunghezza $|AC|$, costruire un triangolo ABC con angolo $\hat{ABC} = 90^\circ$, e la mediana BM soddisfacente:

$$BM^2 = AB \cdot BC.$$

Nella matematica moderna l'algebra è diventata così importante che presto i numeri avranno solo un significato simbolico

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"The notion of a set is too vague for the continuum hypothesis to have a positive or negative answer."

Paul Joseph COHEN

"Knowing what is big and what is small is more important than being able to solve partial differential equations"

Stanislaw Marcin ULAM

"You treat world history as a mathematician does mathematics, in which nothing but laws and formulae exist, no reality, no good and evil, no time, no yesterday, no tomorrow, nothing but an eternal shallow, mathematical present."

Otto Ludwig HESSE

"An important scientific innovation rarely makes its way by gradually winning over and converting its opponents: it rarely happens that Saul becomes Paul. What does happen is that its opponents gradually die out, and that the growing generation is familiarised with the ideas from the beginning"

Max Karl Ernst Ludwig PLANCK

"Everyone knows what a curve is, until he has studied enough mathematics to become confused through the countless number of possible exceptions."

Felix KLEIN

"The fact that the author thinks slowly is not serious, but the fact that he publishes faster than he thinks is inexcusable."

Wolfgang PAULI

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	17	M	
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	24	M	
	25	G	(1838) Karl Mikailovich PETERSON
	26	V	(1667) Abraham DE MOIVRE
24			(1896) Yuri Dimitrievich SOKOLOV
	27	S	(1862) John Edward CAMPBELL
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25			(1710) Johann (II) BERNOULLI
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IMO 1959 - 5

Un punto arbitrario M è scelto all'interno del segmento AB . I quadrati $AMCD$ e $MBEF$ sono costruiti dalla stessa parte di AB . Le circonferenze circoscritte a questi quadrati, con centri P e Q , si intersecano in M e N .

- (a) Provare che AF e BC si intersecano in N ;
- (b) provare che le linee MN passano da un punto fisso S (independente da M);
- (c) trovare il luogo dei punti medi dei segmenti PQ al variare di M .

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"Nature is not embarrassed by difficulties of analysis."

Augustin Jean FRESNEL

"Now one may ask, "What is mathematics doing in a physics lecture?" We have several possible excuses: first, of course, mathematics is an important tool, but that would only excuse us for giving the formula in two minutes. On the other hand, in theoretical physics we discover that all our laws can be written in mathematical form; and that this has a certain simplicity and beauty about it. But the real reason is that the subject is enjoyable, and although we humans cut nature up in different ways, and we have different courses in different departments, such compartmentalization is really artificial, and we should take our intellectual pleasures where we find them."

Richard Phillips FEYNMAN

"To isolate mathematics from the practical demands of the sciences is to invite the sterility of a cow shut away from the bulls."

Pafnuti Lvovi CHEBYSHEV

"Mathematics is veri much like poetry. What makes a great poem is tat there is a great amount of thought expressed in very few words. in this sense, formulas like $e^{\pi i} + 1 = 0$ are poems.

Lipa BERS

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	6	M	(1436) Johann Müller REGIOMONTANUS (1857) Aleksandr Michailovitch LYAPUNOV (1906) Max ZORN
	7	M	(1863) Edward Burr VAN VLECK
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IMO 1959 - 6

I piani P e Q non sono paralleli. Il punto A giace su P ma non su Q , e il punto C giace su Q ma non su P . Costruire i punti B in P e D in Q tali che il quadrilatero $ABCD$ soddisfi le seguenti condizioni:

- (1) giace su un piano,
- (2) i vertici sono nell'ordine A, B, C, D ,
- (3) è un trapezoide isoscele con AB parallelo a CD (intendendo che $AD = BC$, ma AD non è parallelo a BC a meno che sia un quadrato), e
- (4) un cerchio può essere inscritto in $ABCD$ toccando tutti i lati.

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"It can be of no practical use to know that π is irrational, but if we can know, it surely would be intolerable not to know".

Edward Charles TITCHMARSH

"What I give form to in daylight is only one per cent of what I have seen in darkness"

Maurits Cornelius ESCHER

"The more I see of men, the better I like my dog"

Blaise PASCAL

"Science is a differential equation. Religion is a boundary condition"

Alan Mathison TURING

"In my opinion, a mathematician, in so far as he is a mathematician, need not preoccupy himself with philosophy -- an opinion, moreover, which has been expressed by many philosophers."

Henri LEBESGUE

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	5	M	
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	11	M	(1857) Sir Joseph LARMOR (1890) Giacomo ALBANESE
28	12	M	(1875) Ernest Sigismund FISCHER (1895) Richard BUCKMINSTER FULLER
	13	G	(1527) John DEE (1741) Karl Friedrich HINDENBURG
	14	V	
	15	S	(1865) Wilhelm WIRTINGER (1906) Adolph Andrej Pavlovich YUSHKEVICH
	16	D	(1678) Jakob HERMANN (1903) Irmgard FLUGGE LOTZ
	17	L	(1831) Victor Mayer Amedee` MANNHEIM (1837) Wilhelm LEXIS
	18	M	(1013) Hermann von REICHENAU (1635) Robert HOOKE (1853) Hendrik Antoon LORENTZ
29	19	M	(1768) Francois Joseph SERVOIS
	20	G	
	21	V	(1620) Jean PICARD (1848) Emil WEYR (1849) Robert Simpson WOODWARD
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	25	M	(1808) Johann Benedict LISTING
30	26	M	(1903) Kurt MAHLER
	27	G	(1667) Johann BERNOULLI (1801) George Biddel AIRY (1848) Lorand Baron von EOTVOS (1871) Ernst Friedrich Ferdinand ZERMELO
	28	V	(1954) Gerd FALTINGS
	29	S	
	30	D	
	31	L	(1704) Gabriel CRAMER (1712) Johann Samuel KOENIG

IMO 1960 - 1

Determinare tutti i numeri di 3 cifre N che sono divisibili per 11 e per i quali $\frac{N}{11}$ è uguale alla somma dei quadrati delle cifre di N

Il meraviglioso mondo della chimica

Se non siete parte della soluzione, siete parte del precipitato

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Dalla nostra libreria: **UTILIZZI PRATICI DELL'IPOTESI NULLA.** Questo testo è essenziale per qualunque teorico che non abbia mai messo piede in un laboratorio. Tra gli argomenti: "Come complicare una teoria in modo efficace", "Risultati garantiti", "Cosa fare quando un'ipotesi non porta a nulla". Copertina rigida, 410 pagine.

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"When working on a problem, I never think about beauty; I think only of how to solve the problem. But when I have finished, if the solution is not beautiful, I know that it is wrong."

Richard Buckminster FULLER

"There is (gentle reader) nothing (the works of God only set apart) which so much beautifies and adorns the soul and mind of man as does knowledge of the good arts and sciences. ... Many ... arts there are which beautify the mind of man; but of all none do more garnish and beautify it than those arts which are called mathematical, unto the knowledge of which no man can attain, without perfect knowledge and instruction of the principles, grounds, and Elements of Geometry."

John DEE

'CEIOSSOTTU'

Anagram to establish priority in the discovery of elasticity: *"Ut tensio, sic vis"*

Robert Hooke

"[The infinitesimals] neither have nor can have theory; in practise it is a dangerous instrument in the hands of beginners ... anticipating, for my part, the judgement of posterity, I would predict that this method will be accused one day, and rightly, of having retarded the progress of the mathematical sciences. "

Francois Joseph SERVOIS

"A quantity which is increased or decreased by an infinitely small quantity is neither increased nor decreased."

Johann BERNOULLI

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	3	G	(1914) Mark KAC
	4	V	(1805) Sir William Rowan HAMILTON (1838) John VENN
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	9	M	(1537) Francesco BAROZZI (Franciscus Barocius)
	10	G	(1602) Gilles Personne de ROBERVAL
	11	V	(1730) Charles BOSSUT (1842) Enrico D'OVIDIO
	12	S	(1882) Jules Antoine RICHARD (1887) Erwin Rudolf Josef Alexander SCHRODINGER
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	15	M	(1863) Aleksei Nikolaevich KRYLOV (1892) Louis Pierre Victor duc de BROGLIE (1901) Petr Sergeevich NOVIKOV
	16	M	(12773) Louis Benjamin FRANCOEUR
	17	G	(1821) Arthur CAYLEY
	18	V	(1601) Pierre de FERMAT
	19	S	(1685) Brook TAYLOR
	20	D	(1646) John FLAMSTEED (1739) Georg Simon KLUGEL (1710) Thomas SIMPSON (1863) Corrado SEGRE (1882) Waclav SIERPINSKI
34	21	L	(1789) Augustin Louis CAUCHY
	22	M	(1647) Denis PAPIN
	23	M	(1683) Giovanni POLENI (1829) Moritz Benedikt CANTOR
	24	G	(1561) Bartholomeo PITISCUS (1942) Karen Keskula UHLENBECK
	25	V	(1561) Philip van LANSBERGE (1844) Thomas MUIR
	26	S	(1728) Johann Heinrich LAMBERT (1875) Giuseppe VITALI
	27	D	(1858) Giuseppe PEANO
35	28	L	(1796) Irene Jules BIENAYME
	29	M	(1904) Leonard ROTH
	30	M	(1856) Carle David Tolme' RUNGE (1906) Olga TAUSSKY-TODD
	31	G	(1821) Hermann Ludwig Ferdinand von HELMHOLTZ

IMO 1960 - 2

Per quali valori reali di x è valida l'uguaglianza:

$$\frac{4x^2}{(1-\sqrt{1+2x})^2} < 2x + 9 ?$$

Il meraviglioso mondo della chimica

Quando c'è puzza di gas inodore, molto probabilmente è monossido di carbonio.

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Agosto - OFFERTA SPECIALE

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"The whole form of mathematical thinking was created by Euler. It is only with the greatest of difficulty that one is able to follow the writings of any author preceding Euler, because it was not yet known how to let the formulas speak for themselves. This art Euler was the first to teach."

Ferdinand RUDIO

"There are surely worse things than being wrong, and being dull and pedantic are surely among them."

Mark KAC

"This result is too beautiful to be false; it is more important to have beauty in one's equations than to have them fit experiment."

Paul Adrien Maurice DIRAC

"And perhaps, posterity will thank me for having shown it that the ancients did not know everything."

Pierre de FERMAT

"Cubum autem in duos cubos, aut quadratoquadratum in duos quadratoquadratos, et generaliter nullam in infinitum ultra quadratum potestatem in duos ejusdem nominis fas est dividere: cuius rei demonstrationem mirabilem sane detexi. Hanc marginis exiguitas non caperet"

Pierre de FERMAT

"Newton is, of course, the greatest of all Cambridge professors; he also happens to be the greatest disaster that ever befell not merely Cambridge mathematics in particular, but British mathematical science as a whole"

Leonard ROTH

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	3	D	(1814) James Joseph SYLVESTER (1884) Solomon LEFSCHETZ (1908) Lev Semenovich PONTRYAGIN
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	21	G	(1899) Juliusz Paweł SCHAUDER
	22	V	(1765) Paolo RUFFINI (1769) Louis PUSSANT (1803) Jacques Charles Francois STURM
	23	S	(1768) William WALLACE (1900) David van DANTZIG
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	28	G	(1698) Pierre Louis Moreau de MAUPERTUIS (1761) Ferdinand Francois Desire' Budan de BOISLAURENT (1873) Julian Lowell COOLIDGE
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	30	S	(1775) Robert ADRAIN (1829) Joseph WOLSTENHOLME (1883) Ernst HELLINGER

IMO 1960 - 3

Nel triangolo rettangolo ABC , l'ipotenusa BC , di lunghezza a , è divisa in n parti uguali, con n intero dispari. La parte centrale sottende un angolo α in A . h è la distanza perpendicolare tra A e BC . Provare che:

$$\tan \alpha = \frac{4nh}{an^2 - a}$$

La matematica è come l'amore. Un'idea semplice, che può diventare complessa.

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"The importance of the "New Mathematics" lies mainly in the fact that it has taught us the difference between the disc and the circle."

Rene' THOM

"If it's just turning the crank it's algebra, but if it's got an idea in it, it's topology."

Solomon LEFSCHETZ

"This branch of mathematics [Probability] is the only one, I believe, in which good writers frequently get results which are entirely erroneous."

Charles Sanders PEIRCE

"We may as well cut out the group theory. That is a subject that will never be of any use in physics."

sir James Hopwood JEANS

"If error is corrected whenever it is recognised, the path of error is the path of truth."

Hans REICHENBACH

[Upon proving that the best betting strategy for "Gambler's Ruin" was to bet all on the first trial.]

"It is true that a man who does this is a fool. I have only proved that a man who does anything else is an even bigger fool."

Julian Lowell COOLIDGE

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	7	S	(1885) Niels BOHR
	8	D	(1908) Hans Arnold HEILBRONN
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	11	M	(1675) Samuel CLARKE (1777) Barnabe BRISSON (1885) Alfred HAAR (1910) Cahit ARF
	12	G	(1860) Elmer SPERRY
	13	V	(1890) Georg FEIGL (1893) Kurt Werner Friedrich REIDEMEISTER (1932) John Griggs THOMSON
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	15	D	(1608) Evangelista TORRICELLI (1735) Jesse RAMSDEN (1776) Peter BARLOW
	16	L	(1879) Philip Edward Bertrand JOURDAIN
42	17	M	(1759) Jacob (II) BERNOULLI (1888) Paul Isaac BERNAYS
	18	M	(1741) John WILSON
	19	G	(1903) Jean Frederic Auguste DELSARTE (1910) Subrahmanyan CHANDRASEKHAR
	20	V	(1642) Sir Christopher WREN (1863) William Henry YOUNG (1865) Aleksandr Petrovich KOTELNIKOV
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	23	L	(1865) Piers BOHL
43	24	M	(1804) Wilhelm Eduard WEBER (1873) Edmund Taylor WITTAKER
	25	M	(1811) Evariste GALOIS
	26	G	(1849) Ferdinand Georg FROBENIUS (1857) Charles Max MASON (1911) Shing-Shen CHERN
	27	V	(1678) Pierre Remond de MONTMORT (1856) Ernest William HOBSON
	28	S	(1804) Pierre Francois VERHULST
	29	D	(1925) Klaus ROTH
	30	L	(1906) Andrej Nikolaevich TIKHONOV
44	31	M	(1815) Karl Theodor Wilhelm WEIERSTRASS

IMO 1960 - 4

Costruire il triangolo ABC date le lunghezze delle altezze da A e B e la lunghezza della mediana da A .

...se non fosse stato per Edison, adesso guarderemmo la TV a lume di candela...

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"An expert is a man who has made all the mistakes which can be made in a very narrow field"

Niels BOHR

" $2^{31}(2^{31}-1)$ is the greatest perfect number that will ever be discovered, for, as they are merely curious without being useful, it is not likely that any person will attempt to find a number beyond it."

Peter BARLOW

"The Council of the Royal Society is a collection of men who elect each other to office and then dine together at the expense of this society to praise each other over wine and give each other medals."

Charles BABBAGE

"Unfortunately what is little recognized is that the most worthwhile scientific books are those in which the author clearly indicates what he does not know; for an author most hurts his readers by concealing difficulties."

Evariste GALOIS

"It is true that a mathematician who is not also something of a poet will never be a perfect mathematician."

Karl Theodor Wilhelm WEIERSTRASS

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	2	G	(1815) George BOOLE
	3	V	(1867) Martin Wilhelm KUTTA (1878) Arthur Byron COBLE
	4	S	(1744) Johann (III) BERNOULLI (1865) Pierre Simon GIRARD
	5	D	(1848) James Whitbread Lee GLAISHER (1930) John Frank ADAMS
45	6	L	(1781) Giovanni Antonio Amedeo PLANAS
	7	M	(1660) Thomas Fantet DE LAGNY (1799) Karl Heinrich GRAFFE (1898) Raphael SALEM
	8	M	(1656) Edmond HALLEY (1846) Eugenio BERTINI (1848) Friedrich Ludwig Gottlob FREGE (1854) Johannes Robert RYDBERG (1869) Felix HAUSDORFF
	9	G	(1847) Carlo Alberto CASTIGLIANO (1885) Theodor Franz Eduard KALUZA (1885) Hermann Klaus Hugo WEYL (1906) Jaroslav Borisovich LOPATYNISKY (1922) Imre LAKATOS
	10	V	(1829) Helwin Bruno CHRISTOFFEL
	11	S	(1904) John Henry Constantine WHITEHEAD
	12	D	(1825) Michail Egorovich VASHCHENKO-ZAKHARCHENKO (1842) John William STRUTT Lord RAYLEIGH (1927) Yutaka TANIYAMA
	13	L	(1876) Ernest Julius WILKZYNSKY (1878) Max Wilhelm DEHN
	14	M	(1845) Ulisse DINI
	15	M	(1688) Louis Bertrand CASTEL (1793) Michel CHASLES (1794) Franz Adolph TAURINUS
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	21	M	(1867) Dimitri SINTSOV
	22	M	(1803) Giusto BELLAVITIS (1840) Emile Michel Hyacinthe LEMOINE
	23	G	(1616) John WALLIS (1820) Issac TODHUNTER
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	27	L	(1867) Arthur Lee DIXON
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	29	M	(1803) Christian Andreas DOPPLER (1849) Horace LAMB (1879) Nikolay Mitrofanovich KRYLOV
	30	G	(1549) Sir Henry SAVILE

IMO 1960 - 5

Il cubo $ABCDA'B'C'D'$ ha A sopra A' , B sopra B' e avanti in questo modo. X è un qualsiasi punto sulla diagonale di faccia AC e Y è un qualsiasi punto di $B'D'$.

(a) Trovare il luogo del punto medio di XY ;

(b) trovare il luogo del punto Z che giace ad un terzo del segmento XY , in modo tale che $ZY = 2XZ$.

D: Qual è la differenza tra un matematico e un fisico?

R: Un matematico pensa che due punti bastino per tracciare una linea retta. Un fisico ha bisogno di altri dati.

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Novembre - OFFERTA SPECIALE

CORPI RIGIDI: Quante volte una vostra dimostrazione è fallita a causa della non rigidità di una parte essenziale del vostro apparato? Da oggi, questo problema è risolto! I nostri corpi rigidi sono garantiti ASSOLUTAMENTE INFLESSIBILI! Possiamo tagliare e lavorare questo materiale secondo qualsiasi specifica richiesta. Fornite le dimensioni precise per una stima del costo

SOLO CALL!

"A scientist can hardly meet with anything more undesirable than to have the foundations give way just as the work is finished. I was put in this position by a letter from Mr. Bertrand Russell when the work was nearly through the press."

Friedrich Ludwig Gottlob FREGE

"Logic is the hygiene the mathematician practices to keep his ideas healthy and strong."

Hermann Klaus Hugo WEYL

"The British Mathematical Colloquium consists of three days of mathematics with no dogs and no wives"

John Henry Constantine WHITEHEAD

"The modern physicist is a quantum theorist on Monday, Wednesday, and Friday and a student of gravitational relativity theory on Tuesday, Thursday, and Saturday. On Sunday he is neither, but is praying to his God that someone, preferably himself, will find the reconciliation between the two views."

Benoit MANDELBROT

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49	4	L	(1795) Thomas CARLYLE
	5	M	(1868) Arnold Johannes Wilhelm SOMMERFELD
	6	M	(1901) Werner Karl HEISENBERG
	7	G	(1682) Giulio Carlo FAGNANO dei Toschi
	8	V	(1647) Giovanni CEVA
	9	S	(1823) Leopold KRONECKER
	10	D	(1830) Antonio Luigi Gaudenzio Giuseppe CREMONA
	11	L	(1508) Regnier GEMMA FRISIUS
	12	M	(1865) Jaques Salomon HADAMARD
	13	M	(1919) Julia Bowman ROBINSON
50	14	G	(1883) Nikolai Nikolaievich LUZIN
	15	V	(1906) Grace Brewster MURRAY HOPPER
	16	S	(1917) Sergei Vasilovich FOMIN
	17	D	(1804) Karl Gustav Jacob JACOBI
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	20	M	(1832) Peter Ludwig Mejdell SYLOW
	21	G	(1724) Franz Ulrich Theodosius AEPPLINUS
	22	V	(1887) George POLYA
	23	S	(1546) Tycho BRAHE
51	24	D	(1802) Janos BOLYAI
	25	L	(1804) Wiktor Yakovlevich BUNYAKOWSKY
	26	M	(1706) Gabrielle Emile Le Tonnelier de Breteuil du CHATELET
	27	M	(1835) Felice CASORATI
	28	G	(1842) Marius Sophus LIE
	29	V	(1900) Dame Mary Lucy CARTWRIGHT
	30	S	(1917) Roger LYNDON
	31	D	(1783) Charles Julien BRIANCHON
	32	M	(1854) Marcel Louis BRILLOUIN
	33	M	(1494) Oronce FINE
52	34	G	(1648) Tommaso CEVA
	35	V	(1875) Francesco Paolo CANTELLI
	36	S	(1878) Jan LUKASIEVIKZ
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	49	G	(1571) Johannes KEPLER
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	52	D	(1882) Arthur Stanley EDDINGTON
	53	L	(1903) John von NEUMANN
54	54	V	(1856) Thomas Jan STIELTJES
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	57	M	(1896) Carl Ludwig SIEGEL
	58	G	(1952) Vaughan Frederick Randall JONES
	59	V	
	60	S	
	61	D	
	62	L	
	63	M	

IMO 1960 - 6

Un cono di rivoluzione ha una sfera inscritta tangente alla base del cono e alla superficie laterale del cono. Un cilindro è circoscritto attorno alla sfera in modo tale che la sua base giace sulla base del cono. Il volume del cono vale V_1 e il volume del cilindro vale V_2 .

(a) Provare che $V_1 \neq V_2$;

(b) Trovare il valore minimo di $\frac{V_1}{V_2}$. Per questo caso, costruire il semiangolo del cono.

La velocità del tempo è un secondo al saecondo.

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CARRUCOLE SENZA INERZIA: Tutti dicevano che era impossibile! Siamo fieri di questa nuova aggiunta al nostro catalogo, che sicuramente rivoluzionerà l'arte delle dimostrazioni in fisica. Prezzo proporzionale al quadrato del raggio. Per un migliore risultato, usare con i nostri perni senza attrito

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"The shortest path between two truths in the real domain passes through the complex domain."

Jaques Salomon HADAMARD

"Now it is quite clear to me that there are no solid spheres in the heavens, and those that have been devised by authors to save the appearances, exist only in their imagination, for the purpose of permitting the mind to conceive the motion which the heavenly bodies trace in their courses."

Tycho BRAHE

"Mathematical discoveries, like springtime violets in the woods, have their season which no human can hasten or retard."

Janos BOLYAI

"I believe there are 15 747 724 136 275 002 577 605 653 961 181 555 468 044 717 914 527 116 709 366 231 425 076 185 631 031 296 296 protons in the universe and the same number of electrons."

Arthur EDDINGTON

"The Analytical Engine weaves algebraic patterns, just as the Jacquard loom weaves flowers and leaves"

Augusta Ada KING Countess of LOVELACE

Mathematics consists of proving the most obvious thing in the least obvious way

George POLYA