



IL DOMANI SI **ATTIVA** OGGI

Festival della formazione **2022**

TAVOLA ROTONDA

International day of Math

La matematica unisce

Relatori: Roberto Natalini (CNR), Luca Perri, Giulia Bini,
Maria Colombo, Giulia Di Nunno, Raffaella Mulas



ORGANIZE AN EVENT!

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MATHEMATICS UNITES PHOTO CHALLENGE

English

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The theme for the 2022 International Day of Mathematics is Mathematics Unites. Let's connect through this year's challenge: **photos with mathematics!**

Take a picture of **yourself** (you can team up with your class, friends, family, pets, neighbors) with **a mathematical thing**:

- A mathematical object you built,
- ... or drew,
- ... or formed using people's bodies.
- Or maybe there's a very mathematical building or bridge in your city,
- ... or a statue of a famous mathematician.
- Mathematics is everywhere, but sometimes it's hiding, so you can also reveal it in some way.

Remember that **mathematics is much more than numbers!**

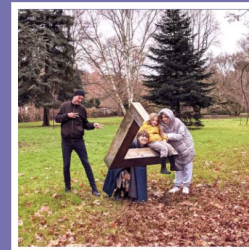
- Geometrical shapes,
- patterns or sequences,
- formulas,
- tessellations,
- fractals,
- and many other things!



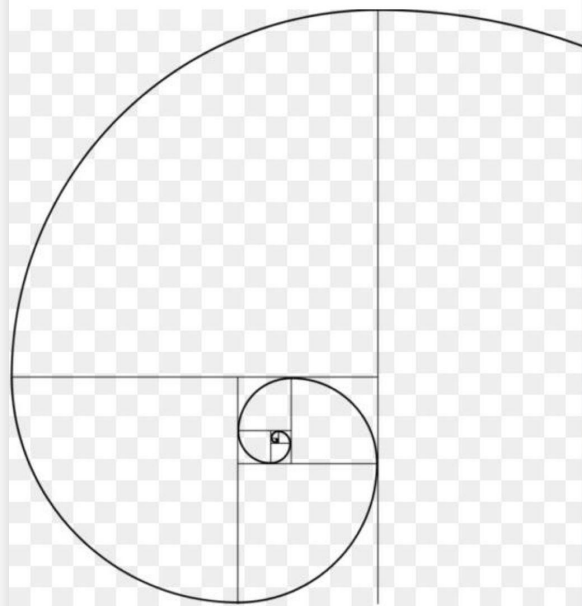
You can create all sorts of shapes, patterns and sequences with a group of friends.



Students of the Mustafa Mürüvvet Alaattinoğlu Anadolu Lisesi school in the octagonal Red Tower in Alanya, Turkey.



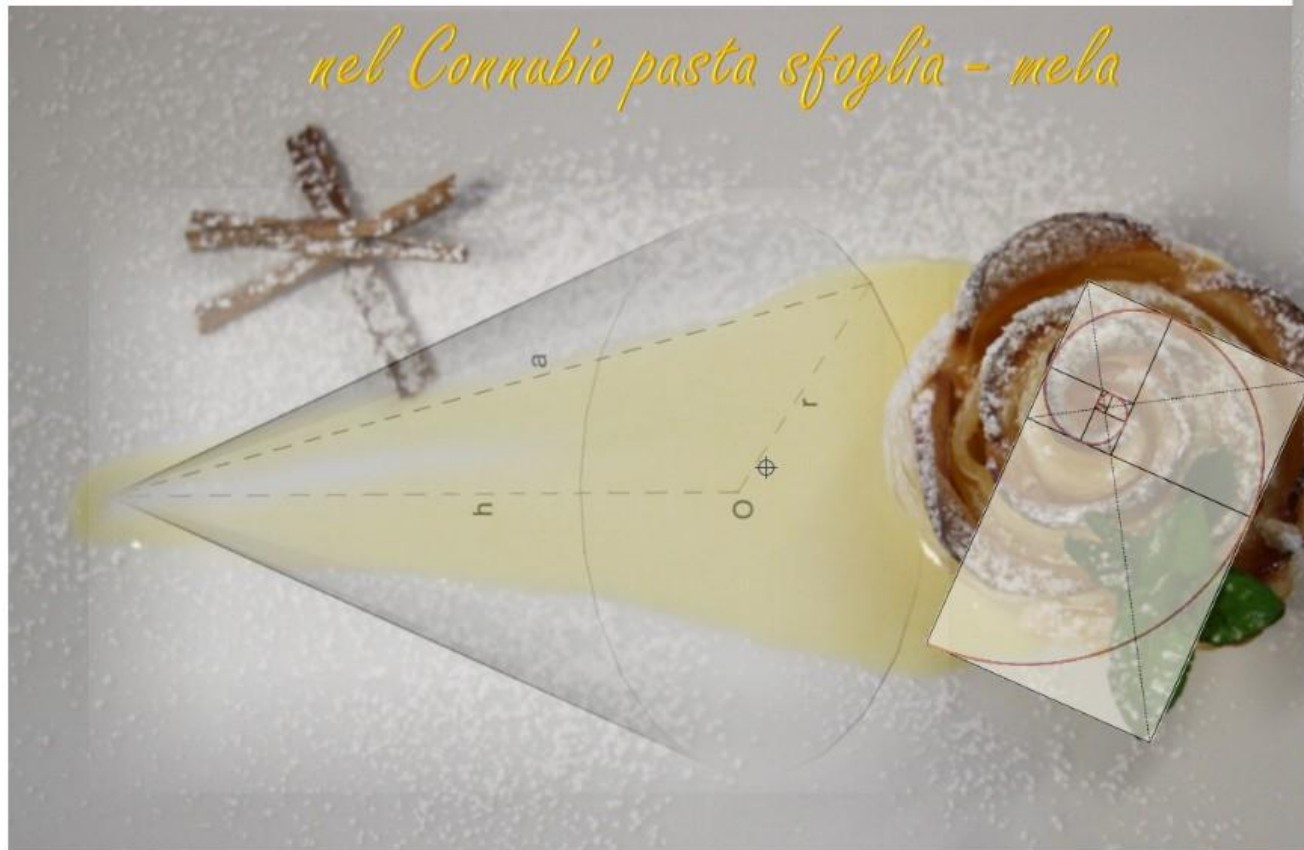
Sometimes a wild Penrose triangle appears in the forest!



The Fibonacci spiral in nature
Francesco Liberati
Liceo Enrico Fermi
Montesarchio (BN)



*Un solido di rotazione e la spirale aurea
nel Connubio pasta sfoglia - mela*



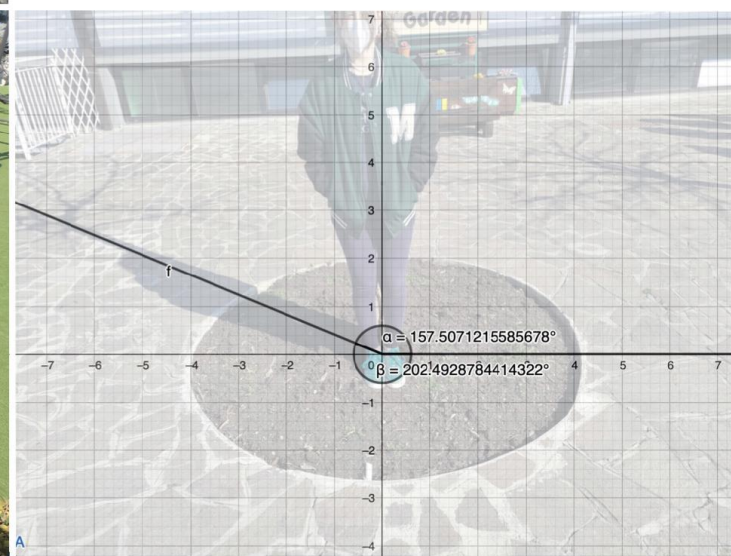
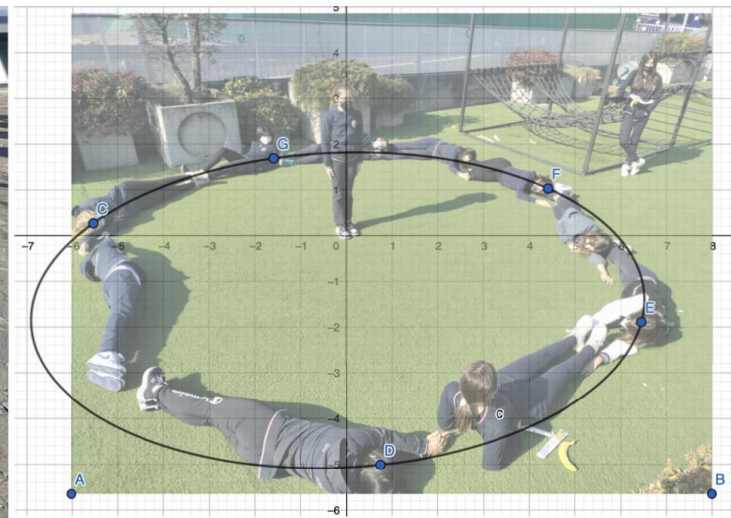
I.I.S. A. Moro Montesarchio BN

Fibonacci



We made a rectangle, doing a yoga position. We have been creative and we have not limited ourselves to photographing ordinary objects. We also had a lot of fun!

Marianna Falco, Giovanna D'Ambrosio, Beatrice D'Onofrio, Federica Dello Iacovo
IIS Enrico Fermi
Montesarchio (BN)



Caterina Viganò
Scuola Internazionale di Bergamo
Bergamo

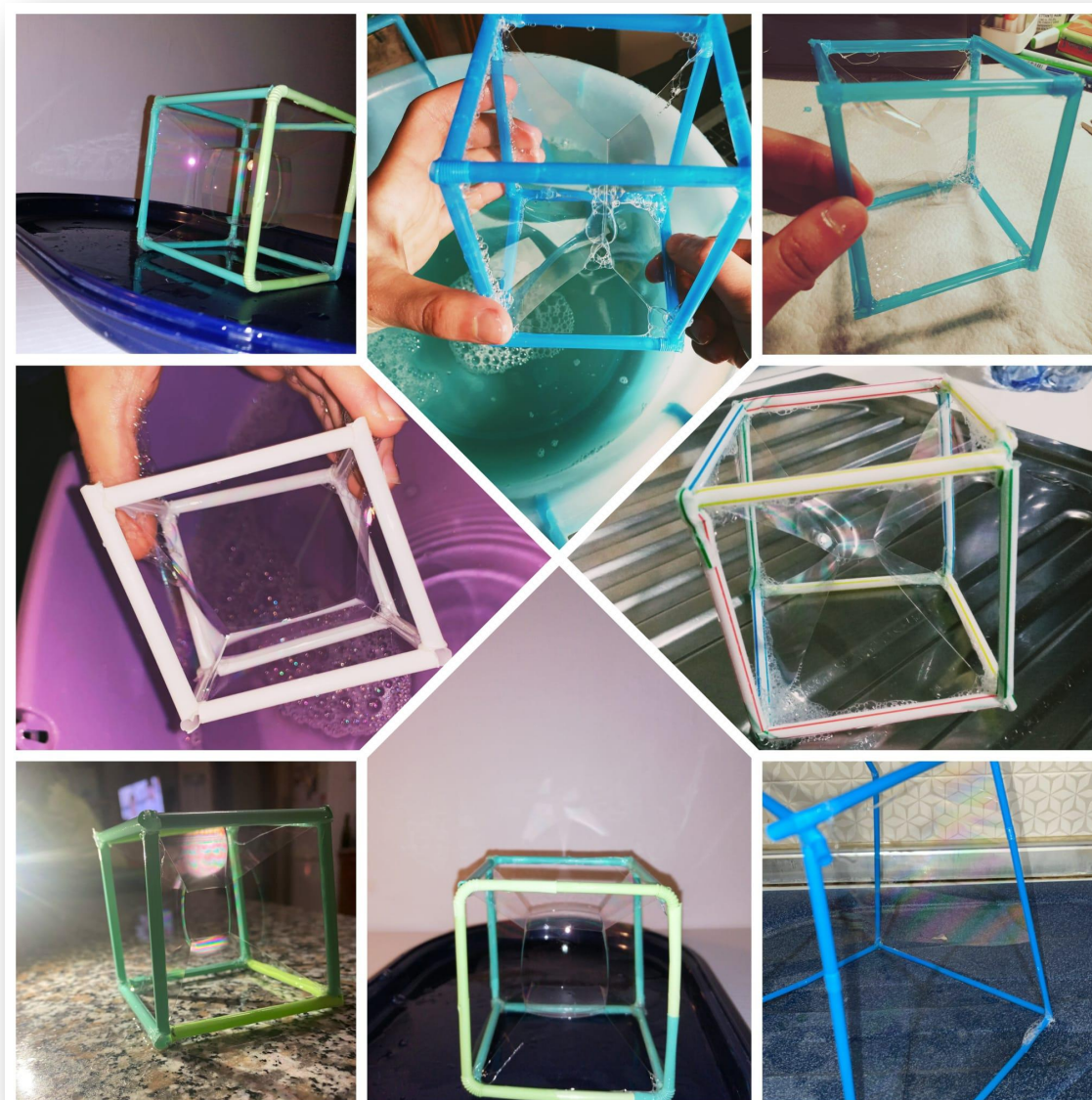


Figuri...AMO..ciFigures... I love
Luciana Marini
IC Ripi
Torrice (FR)



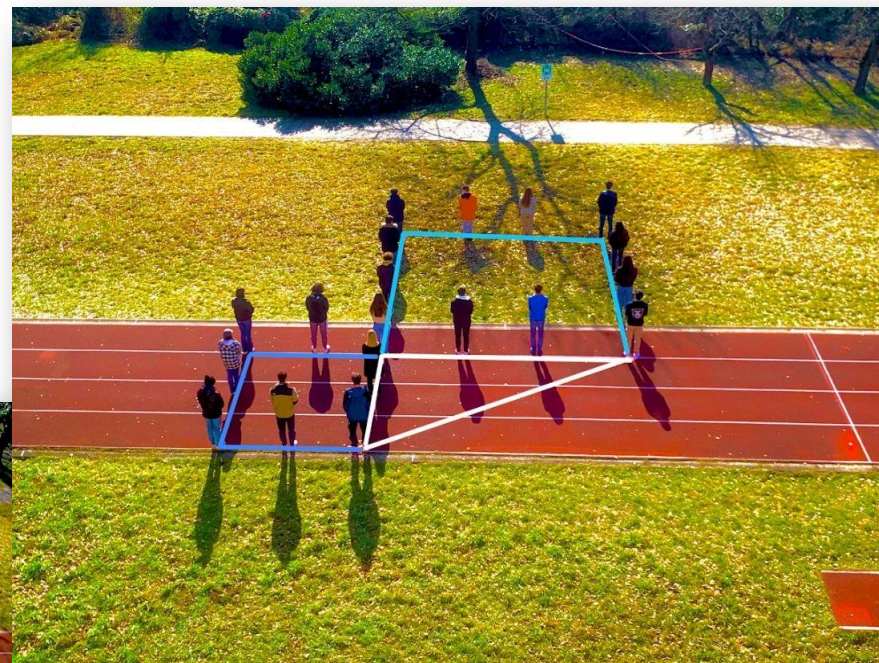
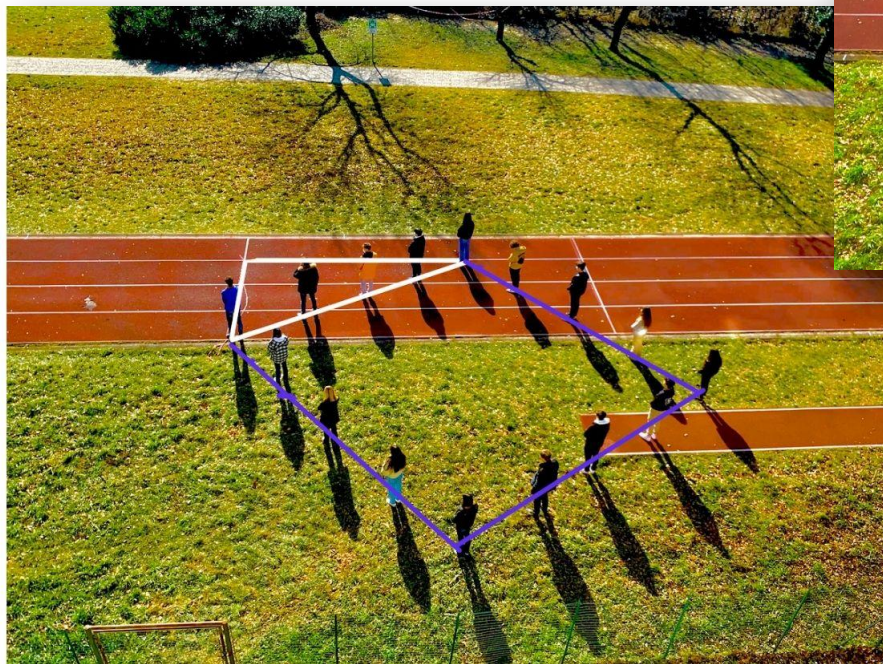
Moving Geometry representation of lines, with the body.

Classe IB
IC Milazzo, plesso Baronello
Milazzo (ME)



Bubbles are not always round! Think different!

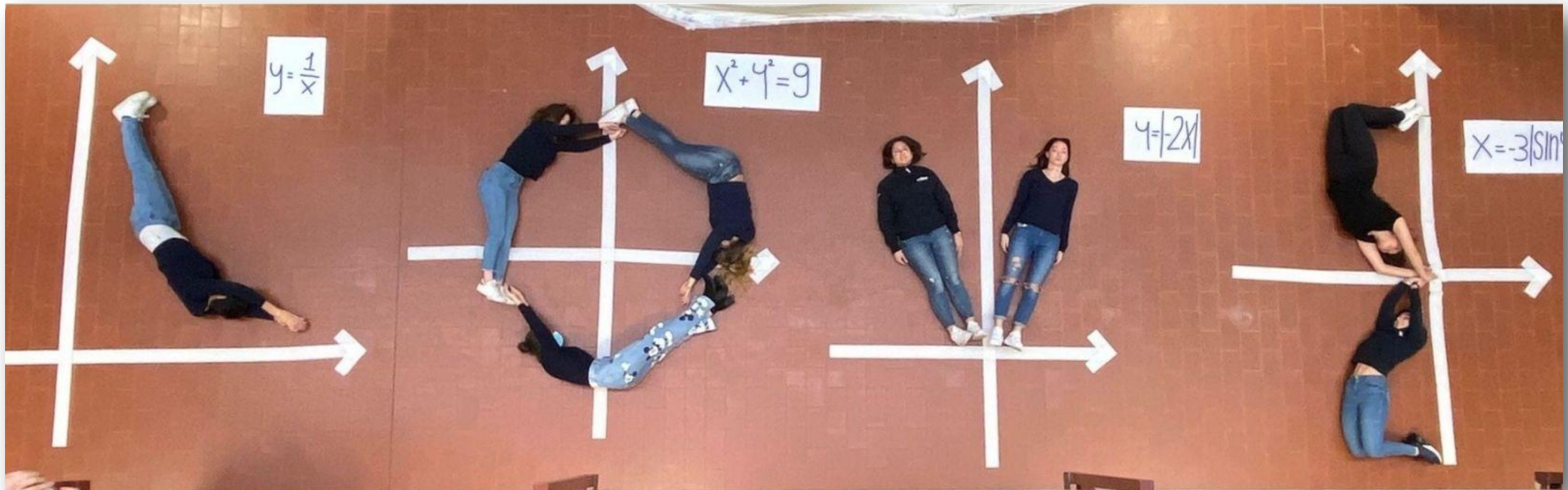
Classe 3I
IIS Galvani Opromolla
Angri (SA)



In this picture we represented the Pythagorean theorem, which states that in a rectangle triangle the square built on the hypotenuse is equivalent to the sum of the areas of the squares built on the catheters. We took this picture in the school garden, from the top of the outdoor ramp of stairs.

Classe 4BL

Liceo Scientifico Carlo Alberto dalla Chiesa
Sesto Calende (VA)



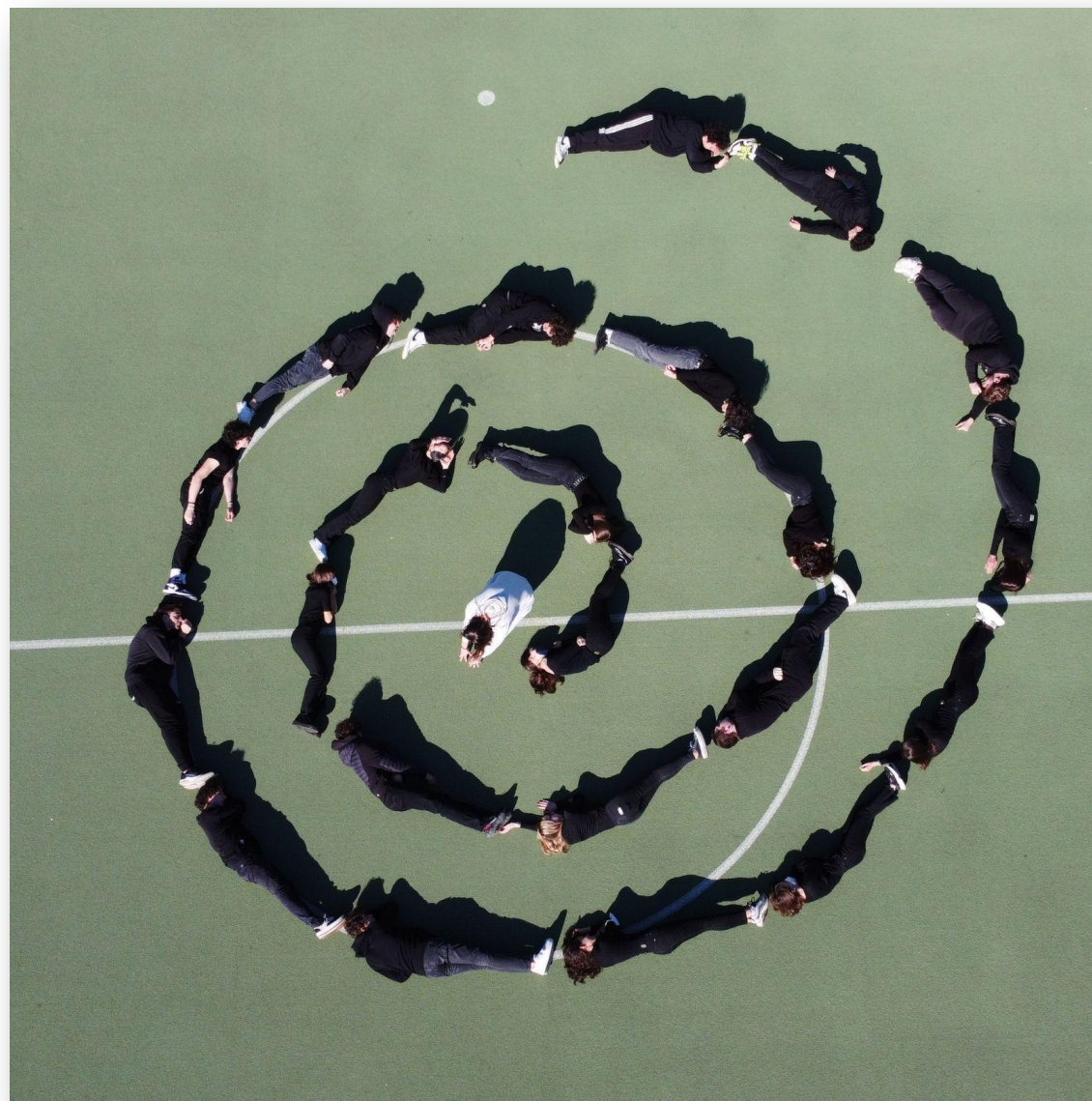
In the image with the writing "LOVE" we wanted to express the love for Maths. Each letter made with our bodies represented a different graphic on the Cartesian plane. For the L we chose to represent the graphic of an inverse proportionality; for the O we used a circumference; for the V we chose a function containing an absolute value; last but not least we have the E, using a sinusoidal function oriented on the vertical axis.

Classe 5AL
Liceo Scientifico Carlo Alberto dalla Chiesa
Sesto Calende (VA)



For the mathematics unites challenge our class (2BL) decided to use geometric shapes as a theme. We made a circle made up of all our white shoes, the photo was taken from above in the school hall during art history lessons

Classe 2BL
Liceo Scientifico Carlo Alberto dalla Chiesa
Sesto Calende (VA)



The Meaning of the Spiral is linked to the concepts of Emanation, Extension, Development and in particular to the idea of progressive Cyclic Continuity and to that of Creation, expressed by Rotation. The harmonious development of the form is linked to the necessity of living beings to grow "according to nature" in the best and least expensive way possible. Looking at nature we have reproduced this harmonious form with our bodies showing the continuity of our friendships. We took the photo from above with a drone, in soccer field of our school.

Classe 4AL

Liceo Scientifico Carlo Alberto dalla Chiesa
Sesto Calende (VA)



Make calculations with us, human calculators!!!
Valentina Onori, Azzurra Liuti con i compagni
di classe della IIA
Liceo Scientifico Leonardo Da Vinci
Jesi (AN)



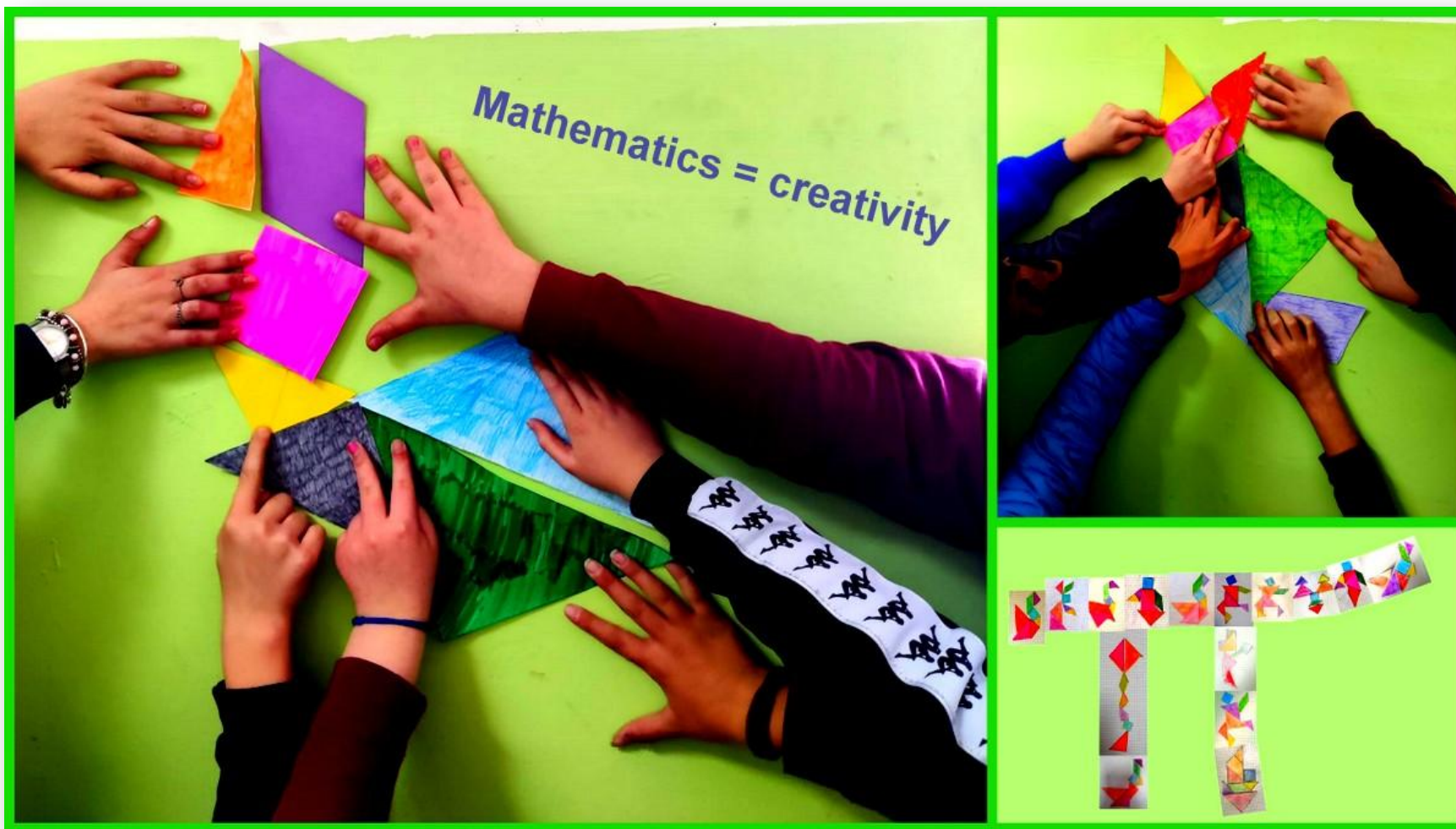
The photo represents the union of 6 angles of 60 degrees and the creation of a geometric figure. It also symbolizes the union between the students and the closeness to the People living the war in Ukraine.

Classe 1L
IIS Galvani Opromolla
Angri (SA)



The photo represents something that has always fascinated and delighted children : small snowflakes. The students wanted to create the fractal of a snowflake, sensing the close correlation between mathematics and nature.

Classe IIA
IC Milazzo, plesso Carrubaro
Milazzo (ME)



Learning mathematics can be really creative! Here you are our work about equiscomponibility. How many figures you can find with only "seven pieces of wisdom"!

Classe 2I
IIS Galvani Oromolla
Angri (SA)



Fin da piccoli vediamo la matematica solo come un insieme di numeri e lettere ma la possiamo trovare anche nella vita di tutti i giorni osservando le figure geometriche. La matematica è in ogni cosa che ci circonda e in ogni gesto che compiamo: in un edificio, in una palestra, in un semplice abbraccio e in noi stessi. Quando due o più persone si abbracciano formano a volte senza accorgersene, un insieme di figure geometriche e solidi quali ad esempio: il triangolo, il cerchio, il cilindro. Così è nata l'idea per la nostra foto, scattata nella palestra all'aperto della nostra scuola, un luogo molto ricco di forme geometriche.

Classe 3D
Liceo Enrico Fermi
Montesarchio (BN)



A fractal snowflake
Francesco Liberati
Liceo Enrico Fermi
Montesarchio (BN)



The circle, from its ancient origins to the present day, emulates absolute perfection, the cyclical nature of time. The circles often and willingly imitate the designs of Nature in harmony with the Universe. In the past all civilizations have always built on the basis of the circle. For Humanity he has always indicated the object of desire, Adam's apple, the perfection of being in the Universe, Leonardo da Vinci's "Man of Vitruvius", crushed by the square (Earth) and looking for in the circle his identity in the infinite Extended, (between microcosm and macrocosm). More circles that are born of the same origin mean absolute perfection: "Concentric circles".

Mondello Alessandro, Virginia Crimi, Eleonora Giorgianni
IC Milazzo, plesso Zirilli
Milazzo (ME)

MATEMATICA DeA **LIVE**



[Leggi](#)





Maria Colombo

Matematica, docente Scuola Politecnica Federale di Losanna

Giulia Bini

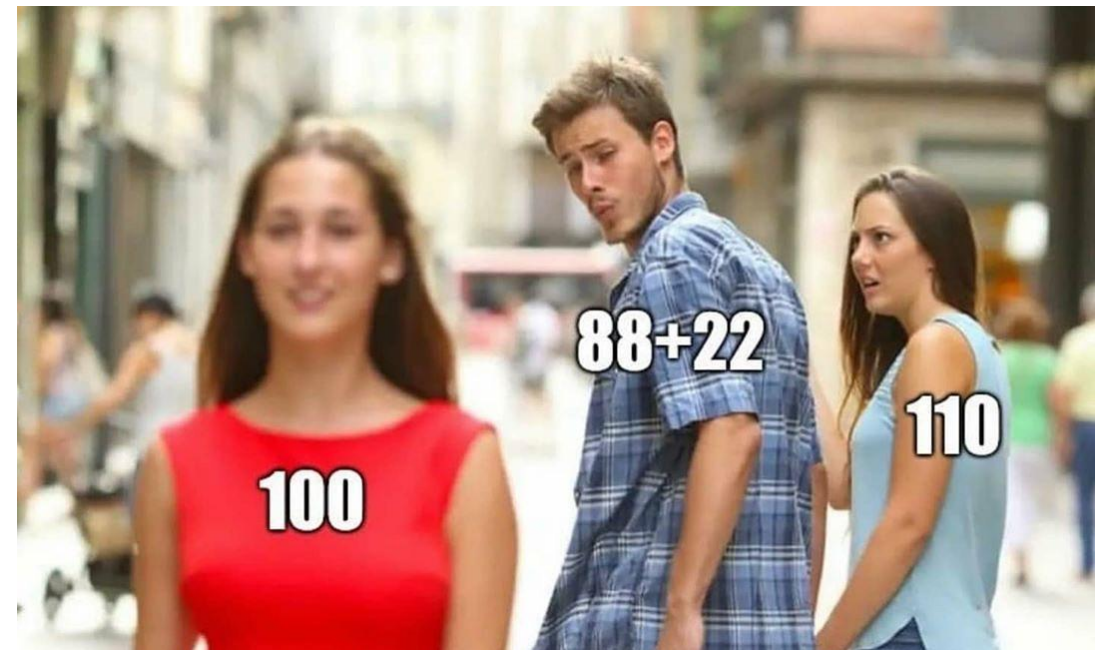
Matematica, ricercatrice Università di Torino

Per 6 matematici passano infiniti meme

Nel Web, i meme matematici sono percepiti come **rappresentazioni di enunciati matematici**, espressi in un nuovo linguaggio ibrido che unisce segni matematici e segni memetici.

I meme matematici possiedono un *potenziale epistemico* in grado di avviare spontaneamente processi di argomentazione sul valore di verità dell'enunciato stesso.

[Bini, G., Robutti, O., & Bikner-Ahsbahr, A. (2020). Maths in the time of social media: conceptualizing the Internet phenomenon of mathematical memes. *Int. Journal of Mathematical Education in Science and Technology*. <https://doi.org/10.1080/0020739X.2020.1807069>]



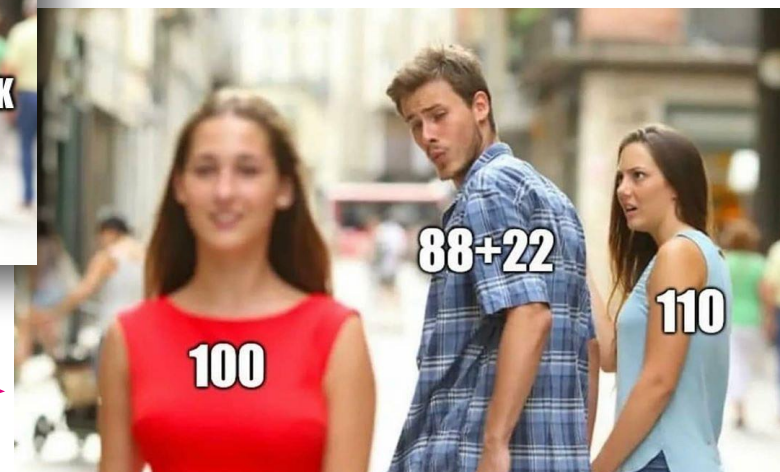
Per 6 matematici passano infiniti meme



Base memetica:
Distracted Boyfriend



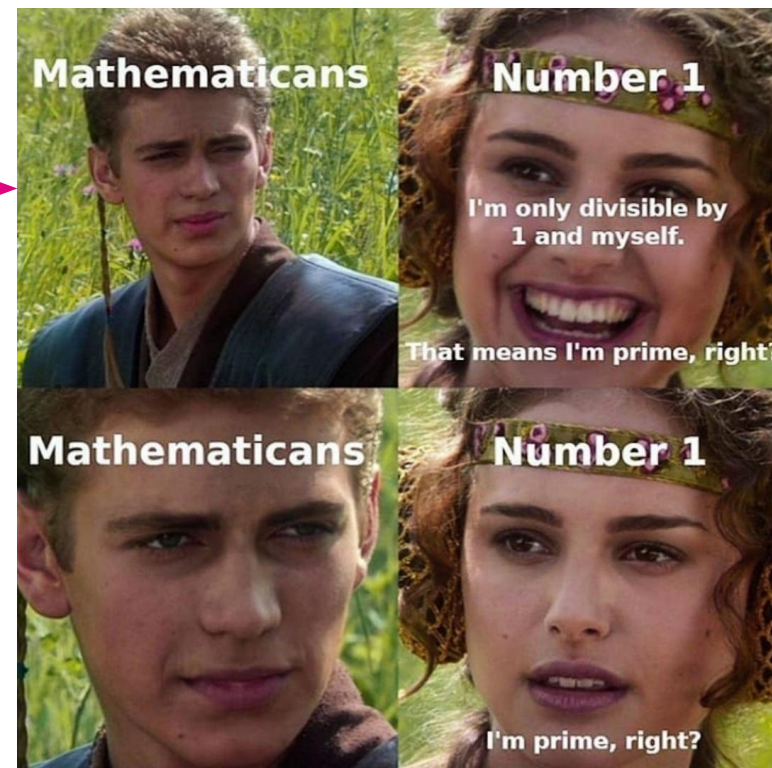
$$100 \neq 88+22 = 110$$



Per 6 matematici passano infiniti meme

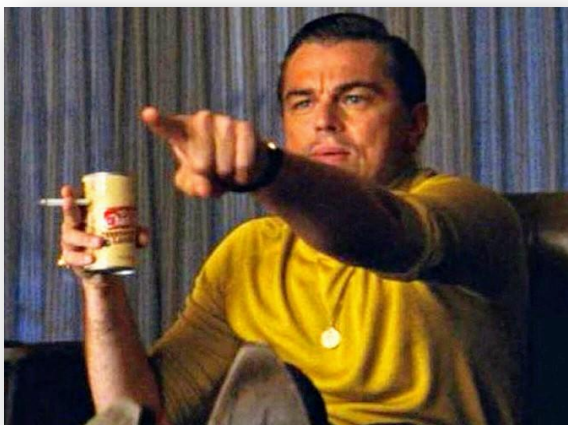


Base memetica:
For the Better, Right?



1 non è un numero primo

Per 6 matematici passano infiniti meme



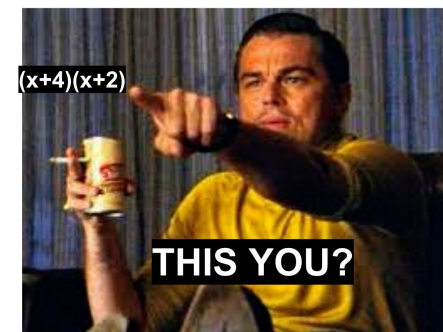
Base memetica:
Pointing Di Caprio

Leonardo Dicaprio checking in with the
internet seeing thousands of memes featuring him



$$x^2 + 6x + 8 = (x + 4)(x + 2)$$

$x^2 + 6x + 8$
Me:



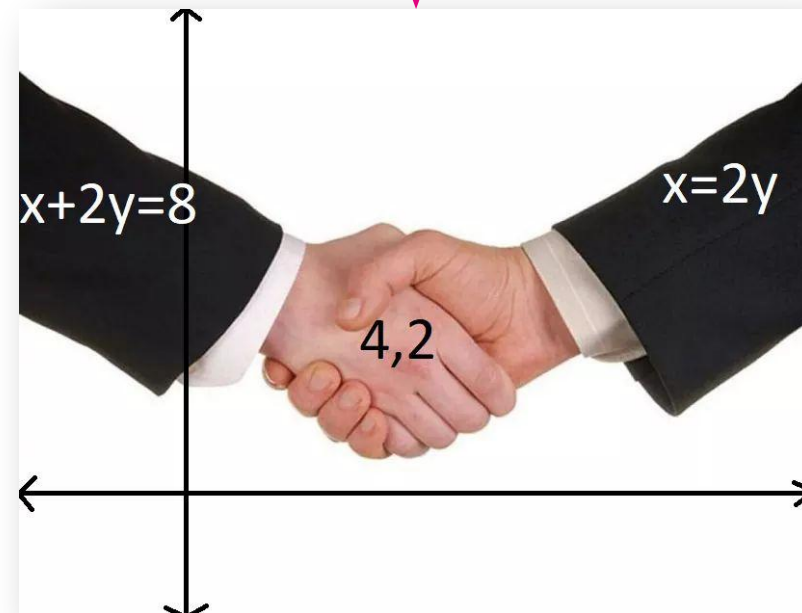
Posted in r/mathmemes by u/mathisprettyfun3

reddit

Per 6 matematici passano infiniti meme



Base memetica:
Business Handshake



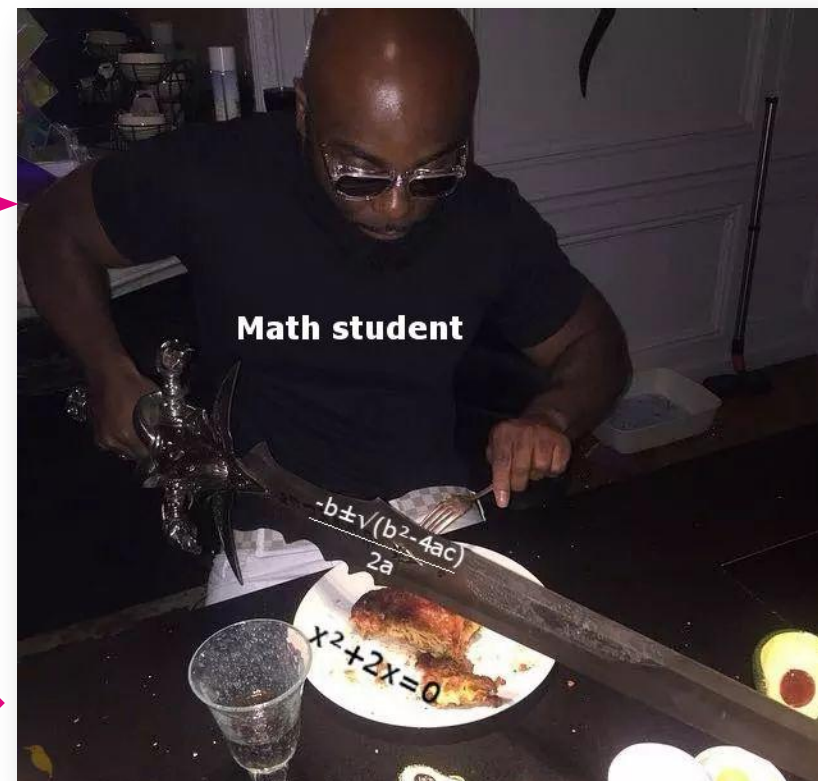
Le rette $2x+y=8$ e $x=2y$ si
intersecano nel punto $(4,2)$

Per 6 matematici passano infiniti meme



Base memetica:
**Cutting Food
With a Sword**

When all the knives dirty and you don't
feel like washing them



L'equazione $x^2 + 2x = 0$ si può risolvere applicando
la legge di annullamento del prodotto

Per 6 matematici passano infiniti meme



Base memetica:
Bangladeshi cake
cutting



La funzione $y = \frac{\sin(x)}{x}$ ha una
discontinuità eliminabile nel punto $(0,1)$

Giulia Di Nunno

Matematica, docente Università di Oslo







Raffaella Mulas

Matematica, direttrice di ricerca Max Planck Institute Lipsia

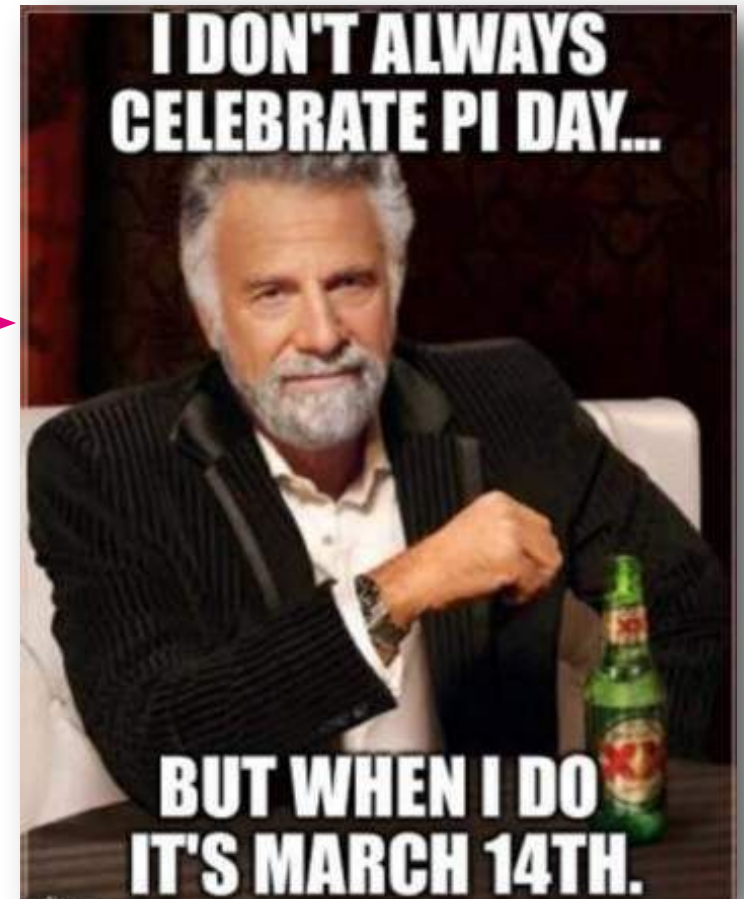
Per 6 matematici passano infiniti meme



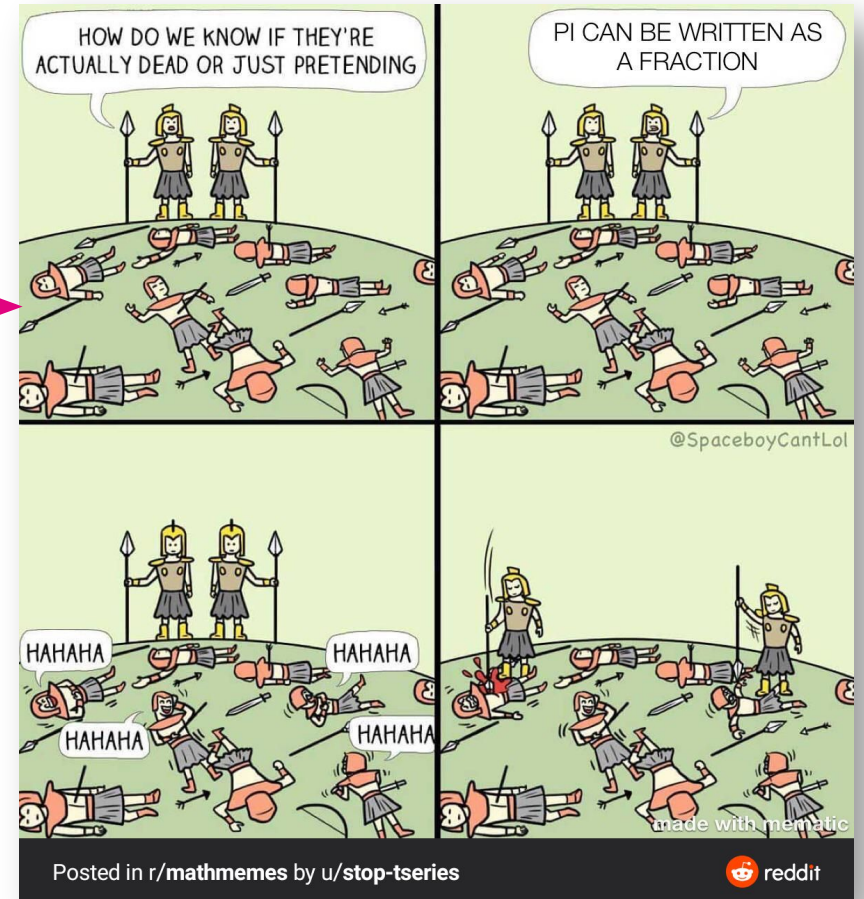
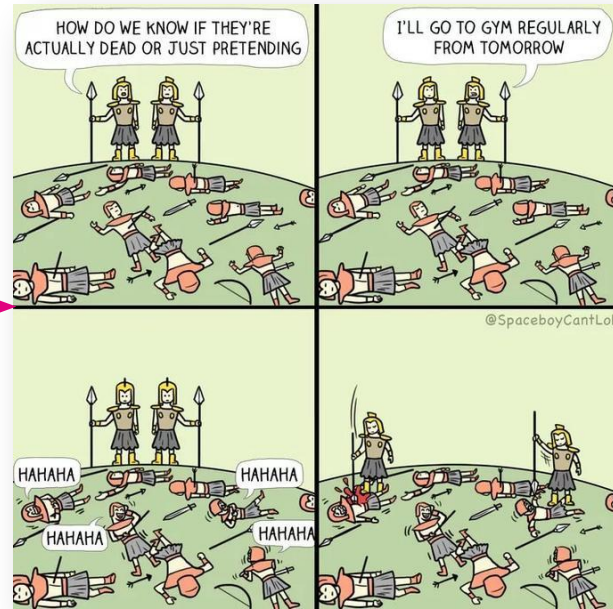
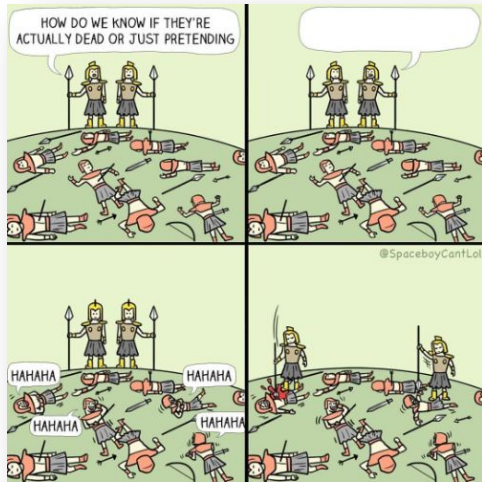
Base memetica:
Most interesting
man in the world



Il valore di π approssimato
ai decimi è 3,14



Per 6 matematici passano infiniti meme



Base memetica:
How Do We Know
If They're Actually
Dead Or Just
Pretending?

π è un numero irrazionale

Per 6 matematici passano infiniti meme



Base memetica:
Spiderman pointing
at Spiderman



Le frazioni $22/7$ e $333/106$
forniscono valori approssimati di π



Grazie

