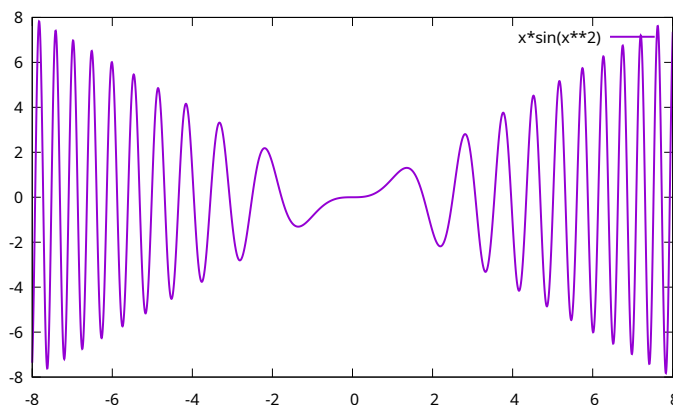


Visualizing Algebra working group

Improve your mental model of functions in a fun, no-anxiety environment!

FOR STUDENTS IN THE ALGEBRA/GEOMETRY/ALGEBRA-2 SEQUENCE:

- Review of previous math - the *whys* of the rules.
- Visual exploration of the pantheon of functions: *structure* and *shape*.
- Symbolic algebra with sympy for equations and factoring polynomials.
- *No prerequisites*: we do not assume knowledge of calculus; we introduce all the algebra ideas we use.



Shape and structure of $f(x) = \sin(1/x^2)$.

LOGISTICS:

date: Mondays (starting October 6, 2025)

time: 7pm US/Mountain
(6pm US/Pacific, 8pm US/Central,
9pm US/Eastern)

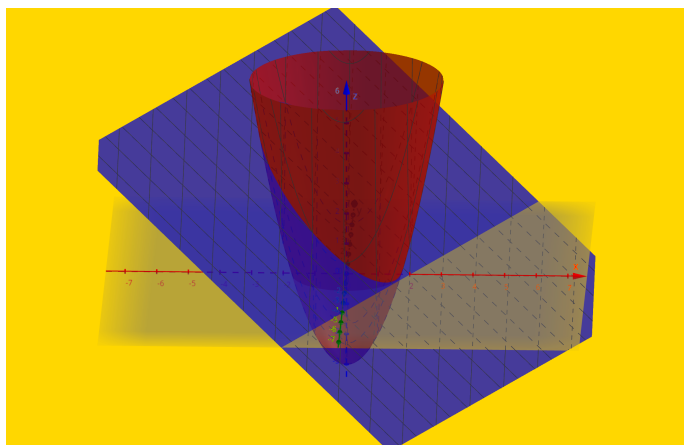
location: <https://meet.jit.si/math-working-group>

catch-up sessions: Wednesdays 7pm US/Mountain
Sundays 10am US/Mountain

instructor: Dr. Mark Galassi



Scan this qr code or [click here](https://meet.jit.si/math-working-group) for more details.



To the left: an example of what we aim to visualize at the end of the working group:

The (blue) plane:

$$g(x) = -x + 1/2y + 2$$

slices the (red) curved surface:

$$f(x, y) = x^2 + y^2 - 3$$

generating a 1-dimensional intersection curve.

Questions and sign-up:

Mark Galassi <mark@galassi.org>

+1-505-629-0759 (voice only)