

Mathematical Haiku

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Maths haikus are hard
All the words are much too big
Like homeomorphic.

Some observations on abstract algebra...

Fields, groups, semirings
Who remembers which with which?
Pesky axioms!

Fields can add, subtract
And multiply and divide
But not by zero

Rings are just like fields
except for the division
Well, you know... kind of

Module is to ring
as vector space is to field.
What analogy!

A proof that $\sqrt{2}$ is irrational

Suppose rational
Let fraction be p on q
hcf is 1

Square both sides and so
 $\frac{p^2}{q^2} = 2$ Read: p squared on q squared is 2
then multiply out.

But then p 's even...
... But then q 's even! Bang! wow!
Like freakout! Pigs fly!

Woe, too much to take.
So now spare a moment few.
Poor Pythagoras

Firstly, an introduction to Lebesgue integration... (more on this later)...

Countable subset
G-delta μ -measurable
Yeah! Lebesgue's the man!

How cool is maths?

Maths is really cool
Really really really cool
I like it alot

And now for my work on topology...

Group presentation
Quotient space by inclusions
Van Kampert is cool

Continuity:
Open pre-image open
Or by epsilons.

A Mobius strip
Is not orientable
Idea for boob tube.

Orientable:
Bug walking along surface
Not turned upside-down

...And my treatment of field extensions and ruler-and-compass constructions...

An ode to constructability in triumvirate of Haiku

Ruler and compass
Degree of field extension
Must be power of 2.

Squaring the circle!
Ha ha you stupid doofus!
 π transcendental!

Duplicating cube?
[$\mathcal{Q}(\sqrt[3]{2}) : (\mathcal{Q})$] Read: 'Q cube root of two to Q'
Degree three, not two!