1 Algebra

There is only one group. Hey look! It's your friend group!

You

The one ring.



Did you miss it?

Sauron sure did.

There is only one

A zine for those who want to become one with one.

"One One" was a racehorse,
"One Two" was one too.
"One One" won one race.

1 Motivation

In their 1985 single, "One Vision", the British rock band Queen outlined the following research program:

So give me your hands, give me your hearts
I'm ready!

There's only one direction
One world and one nation
Yeah, one vision

Queen, "One Vision"

1 Foundations

Definition 1.1. For anyone,

$$1+1=1$$

$$1 - 1 = 1$$

$$1 \div 1 = 1$$

$$1 \times 1 = 1$$

There is only one function, and it is 1-to-1.

$$f(1) = 1$$

and one relation: 1 = 1

1 Topology and Geometry

Here is a true statement:

There exist manifolds, M^m and N^n with n > m, but $N = M \setminus \{*\}$

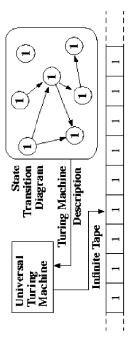
Q: What do you call an empty manifold?

A: Pointless.

Here is another true statement There is only one set: {1}.

1 Complexity

One makes computers more efficient if one removes the useless 0's between the 1's.
Here's a turing machine:



Corollary 1.1. The halting problem is solvable.

Proof. Halt at 1.

1 Calculus

Theorem 1.1. Every sequence converges.

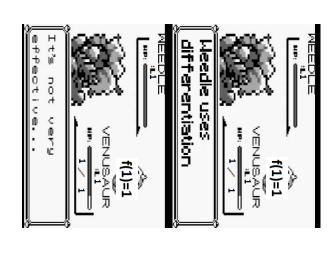
Proof. Consider a sequence: $1, 1, \ldots, \forall \varepsilon = 1$, we have:

$$|1-1| = |1| = 1 = \varepsilon$$

Corollary 1.1. Every series converges.

This is left as an exercise to the reader.

Derivatives



$$f'(1) = \lim_{h \to 1} \frac{f(h) - f(1)}{h - 1} = 1$$

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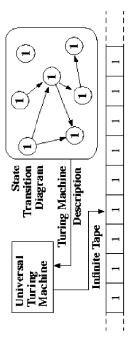
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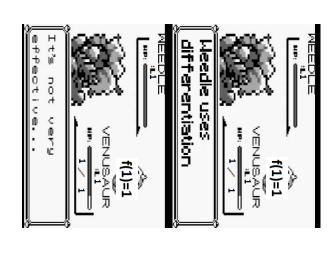
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