

this problem, but one possibility
is that a 5-digit number is divisible
by 3. Let the number be $abcde$, where a, c , and e are

$$a + b + c + d + e = 0$$

Let f be the difference between any two consecutive
digits. If f is a positive integer. Then

$$c = a + f, e = a + 2f$$

From the above, we get:

$$a + b + a + f + d + a + 2f = 0$$

$$3a + b + d + 3f = 0$$

Since a, b, c, d, e are digits, by 3, we can ignore them and

1
00:00:03,889 --> 00:00:02,330
this is astounding and it doesn't seem

2
00:00:05,930 --> 00:00:03,899
like many people are talking about this

3
00:00:07,670 --> 00:00:05,940
at all there are sparks of artificial

4
00:00:10,009 --> 00:00:07,680
general intelligence with early

5
00:00:11,750 --> 00:00:10,019
experiments of gpt4 this comes from

6
00:00:13,910 --> 00:00:11,760
Microsoft research and in this paper

7
00:00:16,070 --> 00:00:13,920
they demonstrate that beyond the Mastery

8
00:00:17,810 --> 00:00:16,080
of language gpt4 can solve and model

9
00:00:20,750 --> 00:00:17,820
tasks regarding mathematics Vision

10
00:00:22,910 --> 00:00:20,760
medicine law psychology without needing

11
00:00:24,529 --> 00:00:22,920
special prompting there are putnam-like

12
00:00:26,630 --> 00:00:24,539
problems in mathematics that can be done

13
00:00:28,730 --> 00:00:26,640

by this AI this is a number theoretic

14

00:00:30,710 --> 00:00:28,740

problem and it's not simple to solve GPT

15

00:00:32,870 --> 00:00:30,720

does it extremely well it even does

16

00:00:34,610 --> 00:00:32,880

integrals which is extremely impressive

17

00:00:36,590 --> 00:00:34,620

how does this come from a large language

18

00:00:38,150 --> 00:00:36,600

model I'm interested in the implications

19

00:00:39,650 --> 00:00:38,160

of this for physics but what does this

20

00:00:41,569 --> 00:00:39,660

mean for Humanity in its most

21

00:00:43,670 --> 00:00:41,579

deleterious sense think about what this

22

00:00:45,770 --> 00:00:43,680

means AGI is the Holy Grail of

23

00:00:47,869 --> 00:00:45,780

artificial intelligence research and it

24

00:00:50,330 --> 00:00:47,879

already seems like gpt4 has the ink

25

00:00:52,130 --> 00:00:50,340

Links of that what will gpt5 be like

26

00:00:55,010 --> 00:00:52,140

Wolfram talks about this in an episode