

> Special Session C

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Dullos

Approach

obj + Sub

X Going for the def / explanation...

X a theorem

FLT

$$y = x^3$$
$$3x^2$$
$$6x$$

X not going for the interpretation

Calculus → crisp
 → concrete
 → intuitive

event
further

$$\frac{dy}{dx^2}$$

$$\frac{d^3y}{dx^3}$$

$$\frac{d^2y}{dx^2}$$

$$\frac{d^{n-1}y}{dx^{n-1}}$$

$$y = |x^n|$$

Remark is selectively true

X

more work

less
is the news

C/E

6/8

2009

$$f(x) = (x^2 + 2x + 1)$$

$$f(x^2) = x^4 + 2x^2 + 1$$

$$f(x^4) = x^8 + 2x^4 + 1$$

Interval

> 0

$$a^b c = a b c$$

$$\psi \alpha_1 \alpha_2 \dots \alpha_n$$

$$\psi \cdot (\alpha_1 \alpha_2 \dots \alpha_n)$$

S. 6. 7

$$\psi, \delta, \bar{0}$$

$$\begin{matrix} > \\ \boxed{\geq} \\ < \\ \leq \\ = \end{matrix}$$

$$\begin{matrix} a^b & a b \\ 5^2 & > 5 \cdot 2 \\ 6^3 & > 6 \cdot 3 \\ 6^1 & = 6 \cdot 1 \end{matrix}$$

$$\bullet + \psi + \alpha$$

$$\bullet \psi \alpha$$

$$576 + 2$$

$$5 \cdot 6 \cdot 2$$

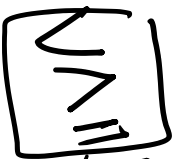
0

$$a + b + c < a \cdot b \cdot c$$

$$0 + 1 + 2 > 0 \cdot 1 \cdot 2$$

$$1 + 2 + 3 = 1 \cdot 2 \cdot 3$$

$$\boxed{\leq 1}$$



$$(-5)^{10(-3)}$$

$$15 < 1$$

$$a^b c$$

\Rightarrow

$$a \cdot b \cdot c$$

Sensitivity

of fraction / zero

$$0.5^{0.92^{67}}$$

$$\left(\frac{1}{2}\right)^{15}$$

$$a^b c$$

$$2(-4)^{(-3)}$$

$$\rightarrow 2(-4)(-3)$$

$$2^{-4^3}$$

$$\rightarrow 2(-4)(3)$$

$$CO$$

$a > 0$ factors Whole
 Natural number

$$a^2 + 2ab + b^2$$

$$\psi^2 + 2\psi\delta + \delta^2$$

Combinatorial

$$a + b + c + d + e = 35$$

~~$a > 0$~~ $a_i \geq 0$

non factors

~~a_i natural number~~

$a_i \rightarrow$ maybe a (0)

$$a + b + c = (1)$$

1, 0, 0
 0, 1, 0
 0, 0, 1

$$a + b + c = (2)$$

$$a + b + c + d = 1$$

$$a + b + c + d = 4$$

$$a + b + c = (10)$$

a

$$10 + 3 - 1 \quad \begin{matrix} 3-1 \\ \end{matrix}$$

$$\rightarrow 12 \quad \begin{matrix} 2 \\ \end{matrix}$$

In store with

1 share each, 13000
 15 people

$$a_{1+2} - - - - - + a_{15} = 13000$$

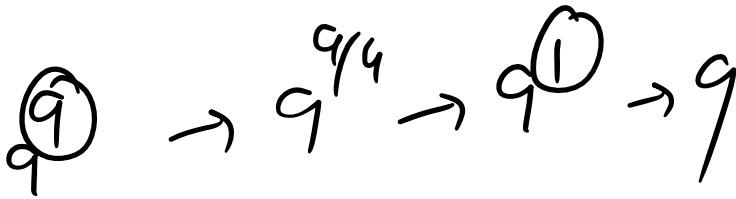
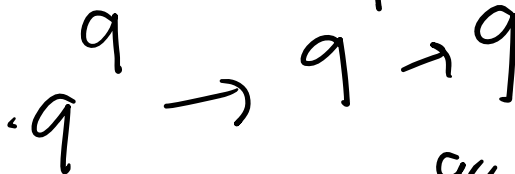
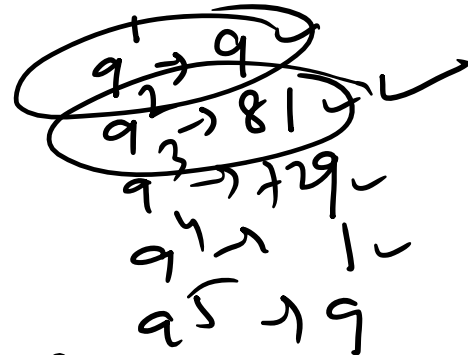
$$13000 + 15 - 1 \text{ } C_{15-1}$$

$$\Rightarrow 13014 \text{ } C_{14}$$

67314

#

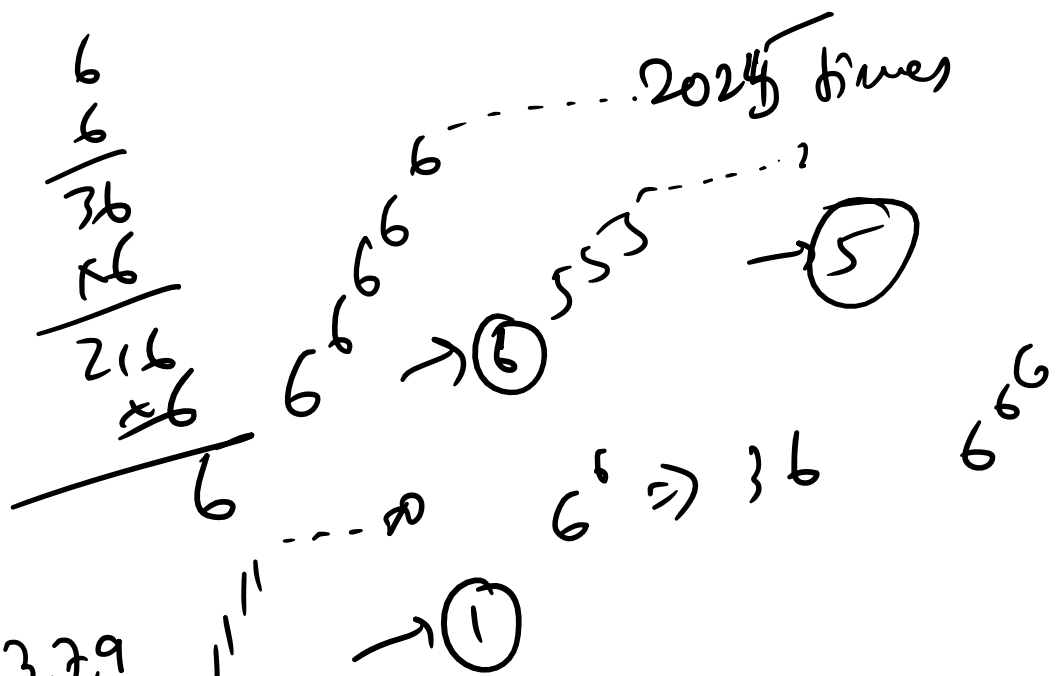
→ What digit?



Cycle of 9

- $9^1 \rightarrow 9$
- $9^2 \rightarrow 1$
- $9^3 \rightarrow 9$
- $9^4 \rightarrow 1$





$$\begin{array}{r} 90623 \\ 95123 \\ \hline \end{array}$$

- 3,7,9
7 ✓
4 ✓
1 ✓
8 ✓
5 ✓
2 ✓
9 ✓
6 ✓
3 ✓
0 ✓

$$\begin{array}{r} 67 \\ 5 \times 4 \\ \hline 36 \times 8 \\ \hline 3618 \end{array}$$

X, X
??

$$\begin{array}{r} 234 \\ 15 \\ \hline 3510 \end{array}$$

$$\begin{array}{r} 2 \overline{) 3} \\ 12 \\ \hline 276 \end{array}$$

4

$$\begin{array}{r} 67 \\ 54 \\ \hline 8 \end{array}$$

②

$$\begin{array}{r} 384 \\ 29 \times \\ \hline \end{array} \begin{array}{r} \searrow \\ \rightarrow \\ \swarrow \end{array} \begin{array}{r} 1 \\ 6 \end{array}$$

(4)
 8
 -12
 -6
 20
 29
 28
 32
 36
 40

$29x$
 11
 $6x4$

Uday
 PA
 MIT
 85-90%
 Google Intern
 Upsc
 Educar Centre
 Program

G

F
 I seen
 Sub
 m.
 right

miss out

R^-
 R^+

NW

$a_1, a_2 = -a_n$

$n \left(\{W\} - \{N\} \right)$

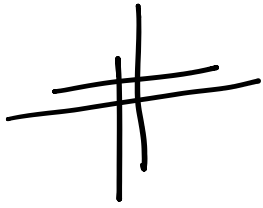
0 1

formula
 > 0

vs

non-negative
 ≥ 0

→ 0
 Non-injecting is a superset to
 Priority



2024.2023.2022.2021-----

----- 1 = -----

ends up with how many 1/2/3/4
 in sequence ----- 19/0?

$$\begin{array}{r} 44 \\ 2 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 43 \\ 6 \\ \hline 258 \end{array}$$

25 → 5x5

$$\boxed{8838}$$

17

5 10
 15

1.2.3.4.5.6.7.8.9.10.11.12 --- .2024

12 ----- 50

$$\left[\frac{50}{5} \right] + \left[\frac{50}{52} \right] + \left[\frac{50}{53} \right]$$

$$\frac{52}{5} + \frac{52}{52}$$

10 + 2

10 + 2 +

12

[] → GIF

1.2 ----- 2024

$$\left[\frac{2024}{1} \right] + \frac{2024}{2} + \frac{2024}{25} + \frac{2024}{37}$$

$$\binom{2024}{5} + \frac{2024}{25} + \frac{2024}{5^3} + \frac{2024}{5^4} + \frac{2024}{5^5}$$

404 80 125 625 3125

$$\binom{25}{5} + \binom{25}{5^2}$$

5 + 1 = 6

- 25!
- 26!
- 27!
- 28!
- 29!
- 30!

discuss → formulate → solve

fi
Sun / morning
Sun / evening
2 days
Sun
6 AM - 7 AM