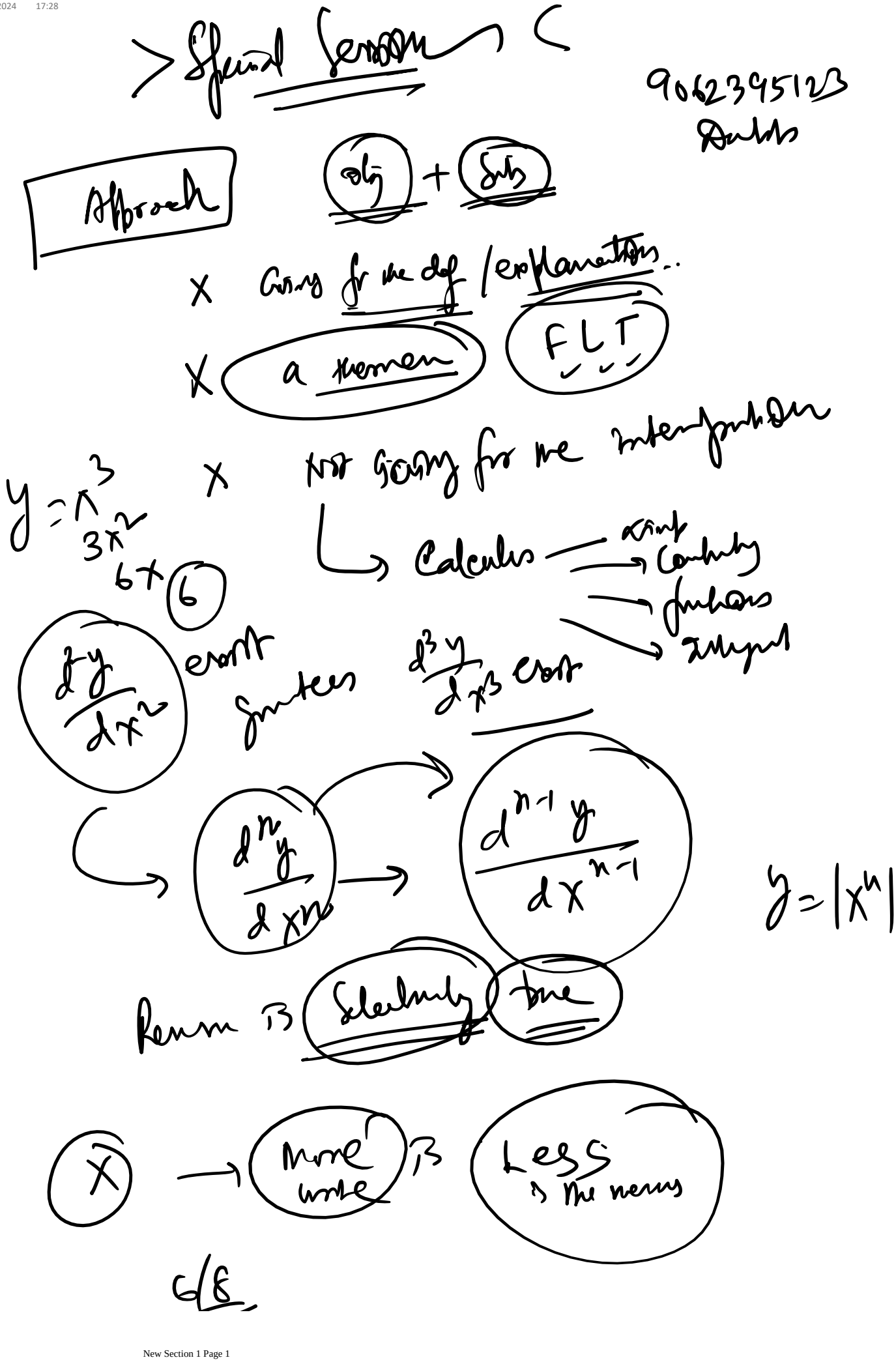
SPECIAL SESEEION 9/5/2024

09 May 2024 17:28



6/8

2009

Internal

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

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

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

20

$a^{b^c} = abc$

- $\psi^{\alpha_1^{\alpha_2 \cdots \alpha_n}}$
- $\psi \cdot (\alpha_1 \alpha_2 \cdots \alpha_n)$

5 . 6 . 7

$>$

$\geq$

$\psi_1 \; \delta$

$<$

$\leq$

$=$

$a^b \quad ab$

$5^2 > 5 \cdot 2$

$6^3 > 6 \cdot 3$

$6^1 = 6 \cdot 1$

- $+\psi + \alpha$
- $\psi \alpha$

576 + 2

5 . 6 . 2

0

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

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

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

$[\leq]$

$\leq$ $\geq$ $=$

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

1.50 < 1

$a^{b^{c}} \geq a \cdot b \cdot c$

Scenario of fraction / zero

$0.5^{0.92^{67}}$

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

$a^{b^{c}}$

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

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

< 0

$a > 0$ fractions whole natural number

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

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

Concluded

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

~~$a > 0$~~ $a_i \geq 0$ / non fractions

~~$a_i \rightarrow$ natural number~~

$a_i \rightarrow$ may be a 0

$a + b + c = 1$

1, 0, 0

0, 1, 0

0, 0, 1

$a + b + c = 2$

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

$a + b + c + d = 4$

$a + b + c = 10$ 6

a

$10 + 3 - 1 \; C_{3-1}$

$\rightarrow {}^{12}C_2$

In shone mkt

1 shone each, 13000 15 people

$a_1 + a_2 + \ldots + a_{15} = 13000$

$13000 + {}^{15-1}C_{15-1}$

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

67314

$9^{9^{9^{\cdot^{\cdot^{9}}}}}$ → last digit ?

$9^{9^{9^{9^{9}}}}$ $9^{9^{9}}$

$9^1 \to 9$
$9^2 \to 81$
$9^3 \to 729$
$9^4 \to 1$
$9^5 \to 9$

$9^{9^{9}} \to 9^9 \to 9$

$9^{9^{9}} \to 9^{9/4} \to 9^{1} \to 9$

Cycle of 4

$9^1 \to 9$
$9^2 \to 1$
$9^3 \to 9$
$9^4 \to 1$

$9^{9^{9}}$

6
6
36
×6
216
×6
6

$6^{6^{6^{6}}}$ ... 2024 times → 6

$5^{5^{5}}$ ... ? → 5

90623
95123

$1^{1^{1}}$ ... → 1

$6^1 \Rightarrow 36$

$6^{6^{6}}$

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

x, x
? ?

23
15
115
230

67
5 × 4
36 × 8
3618

67
54
08

②

23
12
276

④
8

384
29 ×

1
6

4
8
12
16
20

24
28
32
36
40

$29 \times$ → 6

$11 \times 6 \times 4$

Video

PR

IMI?

Google Scholar Education Centre

Program

85-90%

UPSC

C

F

1 sem

Sub

M

right

miss out

R−

R+

NW

$a_1, a_2 - - - a_n$

$n\{W\} - \{N\} \rightarrow 0 \; 1$

positive vs non-negative

>0 ≥ 0

→ 0

Non-injective is a superset to Primitivity

#

2024.2023.2022.2021 - - - - - -

_ _ _ . 1 = _ _ _ _ _

ends up with how many in succession 1/2/3/4 - - - . /9/0 ?

$$\frac{44 \times 2}{88} \quad \frac{43 \times 6}{258} \quad 8838$$

(17)

25 → 5×5 720 120×6 5 10 (15)

1.2.3.4.(5).6.7.8.9.(10).11.12 - - - .2024

12 - - - - . 50

$$\left[\frac{50}{5}\right] + \left[\frac{50}{5^2}\right] + \left[\frac{50}{5^3}\right] \qquad \frac{52}{5} + \frac{52}{5^2}$$

10 + 2

10 + 2 + (12)

[ ] → GIF

1.2 - - - - . 2024

$$\left[\frac{2024}{5}\right] + \frac{2024}{25} + \frac{2024}{125} + \frac{2024}{625} + \frac{2024}{3125}$$

$\frac{2024}{5} + \frac{2024}{25} + \frac{2024}{5^3} + \frac{2024}{625} + \cancel{\frac{2024}{3125}}$

404 80 16 3

$\left[\frac{25}{5}\right] + \left[\frac{25}{5^2}\right]$

$5 + 1 \Rightarrow 6$

25!

26! 29!

27! 30!

28!

observe → formulate → Solve

Sat/Sun

Sat/Every

2 days

5m

6 AM - 7 AM