- ULTIM ATE MATHEMATICS + (BY: AJAY MITTAL)

+ Solutions of T-3 +

 $\frac{Onyst + Sin(sA) - Sin(sA)}{COS(sA) + COS(sA)}$ $= \mathcal{X}COS(YA) \cdot Sin(A) - - \left\{ farmula \quad SinA - SinB \quad cosl \quad GSA + COSBY \right\}$ $= GSA - FSA - RM \quad AMS.$

= SinA = fonA = Rhs AMS...

Ons=2 + cos(7A) + cos(5A) Sin(7A) - Sin(5A) - - G cos(A + cos(B) & Sin(A-sin(B)) $= pcos(BA) \cdot cos(A)$ $pcos(BA) \cdot sin(A)$

= cosA = cot A = Rhs Ams

ONS 3 + CO(54) - COS(94)

574(34) - SIN(174)

 $= \frac{-2\sin(7\pi) \cdot \sin(-2\pi)}{2\cos(10\pi) \cdot \sin(-7\pi)}$ $= \frac{2\sin(7\pi) \cdot \sin(2\pi)}{-2\cos(10\pi) \cdot \sin(2\pi)} - \frac{1}{2\sin(-0)} = -\sin(0\pi)$ $= \frac{2\sin(7\pi) \cdot \sin(7\pi)}{-2\cos(10\pi) \cdot \sin(7\pi)}$

- - Sh(27) - Rhs AMT.

ONS:4+ SINA + SIN(3A) + SIN(5A) + SIN(7A)

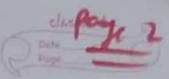
COA + COS(3A) + COS(5A) + COS(7A)

 $\frac{pain 144}{(cos(7A) + cosA)} + \frac{(sin(5A) + 5in(3A))}{(cos(7A) + cosA)} + \frac{(cos(5A) + 5in(3A))}{(cos(3A))}$

= 25n (4A) tos(3A) + 25n (4A) (B(A))
2008(4A) COS(3A) + 2008(4A) (B(A))

then take common

73 selutions

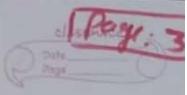


$$= \frac{35 \ln(48)}{200(44)} \left(\frac{\cos(58)}{\cos(54)} + \frac{\cos(4)}{\cos(4)} \right)$$

$$= \frac{1}{2} \cos(44) \left(\frac{\cos(54)}{\cos(54)} + \frac{\cos(4)}{\cos(4)} \right)$$

$$= \frac{1}{2} \cos(44) + \frac{1}{2} \cos(54) + \frac{1}{2} \cos(44) + \frac{1}{2} \cos(54) + \frac{1$$

(T-3) Solutions



(cox(6x) + cox(0)) + (cox(4x) + cox(2x)) = 2001(3x) -col(3x) + 2001(3x). colx = d(a(3x) (cos(3x) + cax) - aggin Set - 3 = 200 (34) [200 (27). cos (x)] - 4 Cd V . COS(24) . COS(34) - Rm Ans ONI & Taking L-MI Cot (4x) [Sin (5x) + sin (3x)) = cos(4x) { 2 sn(4x). cos(x)) = 2(cs(4x) cc1x Taking Ani Cotx (Sin (54) - Sin (34)) = COSY (&COS (44) - STONE) = 2(a(4x) com Clearly LAS= RM Promof COS(44) + COS(34) + COS(24) ON 9+ sin(44) + sin(3x) + sin(2x) pailing = ((cos(4x) + cos(2x)) + cos(3x) (sin(4x) + sin(2x)) + sin(3x) = 2ca(3x) cax + ca(3x) 2 sin(34) (ax + sin(34)

(T-3) Solutions

Page = 4

T-3 (solutions)

