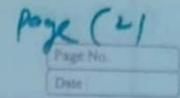


class I-3

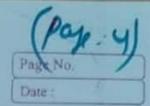


PIVICE 1/thank by 1-Siny HSINY class I-3

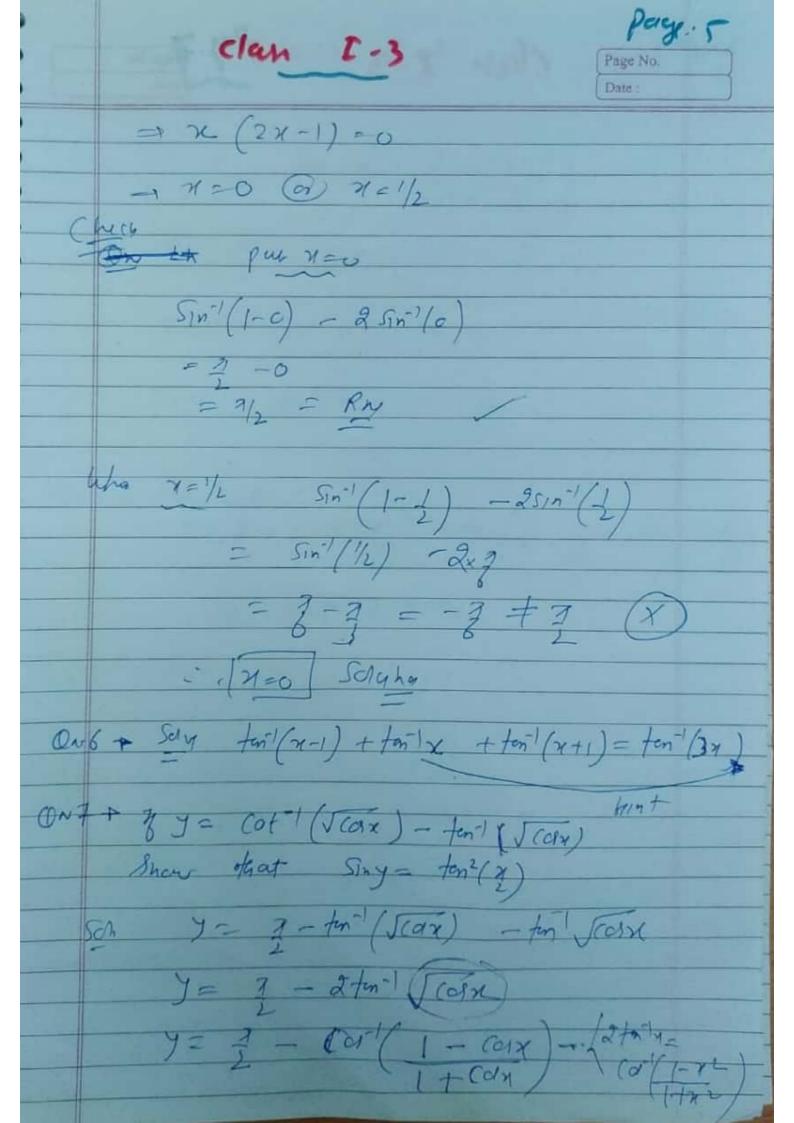
Page No.
Date:

SOLVE ton (24) + ton (34) = 3 for-1 (2x x37) 5× = for(3) = 54= 1-6xL 9 6x2 +5x-1=0 = 6x - +6x-x-1=0 6x(x+1) -(x+1)-0 (x+1) (6x-1)-0 x=-1 (n) x=1/6 (2x) (3x) = 6x2 = 6(-1)2 = 6 >1 (x Juhn 4 = -36(1)= 1 < 1 V then N=16 Dala\_ X=1/6 / dn

## class I-3



On 4 + Solve 2 ton! (con) - ton! (2 cosecx) for (2 colu ) = for (3 cosec x) for ( & cosy = for ( & cose(x) = ACOUX = & COUX Cax = Colerxx Sin2x Special x)= = = +2515/x 1-x = sin (3 + 2517/x) 1- x = (a)(2501x) -1-71 = 1-25172 (SINTY) -- (CA (20) 1- 1= 1- 2 (sin (sin (sin a)) - fina esina



Page No. Payr. 6 (las I-3 9= 3 - to car (2512/2/2) 7- 3 - COST (ten (7/2) Sin' 4 + car'y = 7/2 = 51 n / fon (1/2) Siry = ten2(7/2) Am Or8 + Show that ten (2+ 1 cos (2)) + ten (2-100 (9)) = 2h lu + (a (3) = x = for (3-4) + for (3-4) 1-tonx 1-tonx (2CM) 8 (1+ ten x) 1 (al(20) - tm20

(a) (2x) (0x) 3

(col) 3 a

## WORK SHEET

Page No.

(I-3)

Oni 1 + Simplify ton ( JItcax + JI-cax )

ON2 + Simply Cot ( JI+sinx + JI-sinx)

Ord + Sympty CAROLLAND

Ors Simply tenil ( JI+x - JI-x )

On4 + Simply ton-1 ( )1+x2 + J1-x2 )

On 5+ 7 fen-1 ( ) 1+x2 - 1-x2 = x

then prove that x2= sin(2x)

01.6 + Su ter (dx) + ten - (3x) = 3

On 7 solve ton' (21-1) + ten' (21+1) = 3

On 8 Sly tent (x-1) + tent (2x-1) = tont (23.

On9 + solve 2 ton (sinn) = ton (2 secx)

Page No. an lo + solve sin' (1-4) - 2nn'14 = 3 On 11 + Solve tail (x-1) + tailx + tail (x+1) = tail(37) On 12 \* Solvy fenil (x+1) + tenil (x-1) = tenil 8 On 13 + Find value of feril (7) - feril (21-4) Q114 + Snew frat ton(2+ 1 cos (2)) + ton (2-1 cos (3)) On 15 + 1/ y= (ot -1 (J(ax) - +m-1 (J(ax))

Show that Siny - +an2 (x/2) (HIN) US CONVUSION (0) 17 + Show that (sin (cot 1)) = \[ \frac{1}{4^2+1} \]

thing consulting

ANSWERS (I-3)

3+2

X

7- 1 costx

7 + 1 cost(x2)

x = 1/6

N = # 1/2

X = -3/8

x = 7/4

x = 0

x=0, 1/2, -1/2

) x=1/4

2/4