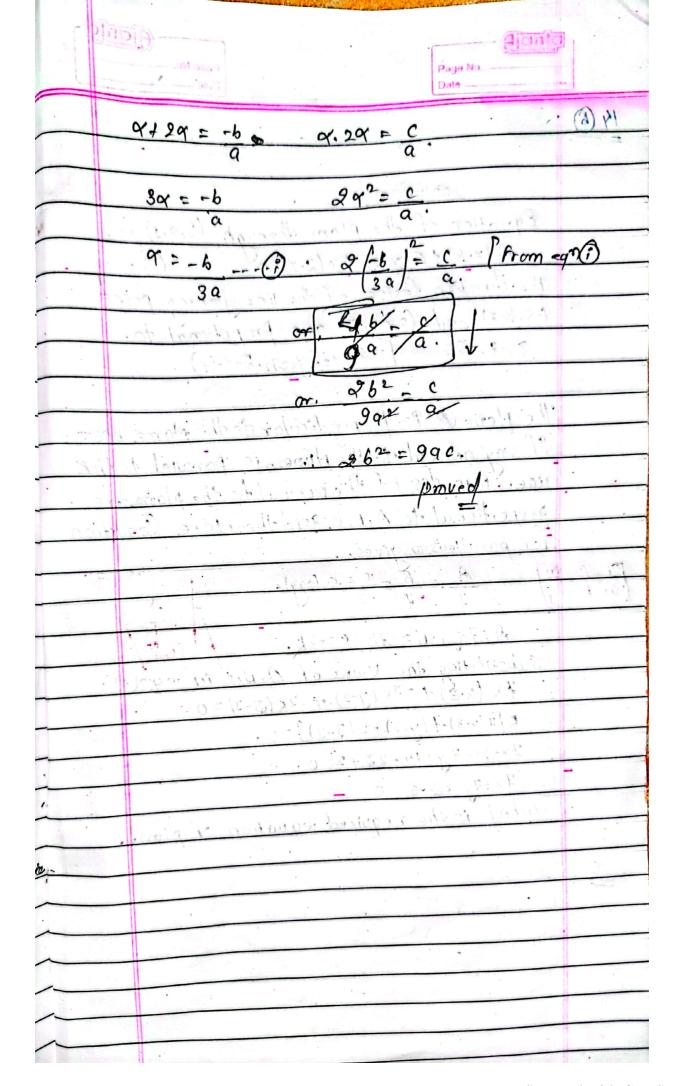
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	The property of evaluation of the land of	Acc
	that if the least direction of one of	-
	50/ation	
O	Given, 3 = 1782 , Itel	A CONTRACTOR OF THE PARTY OF TH
-	J-2; 1+2;	
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(ii)	7000= y = 1 = -1 = 700 (180= 45)=190 30	
10.01	The relation show that Fire si true a la	
e shear	The a de 37/4. with salty a south with a will	
	Potor-form 3 = r(Cos 0 + isin 0)	
	7. Find Square rond: 37/2- [. [] [] 7 + 301-37/4]	71/2.
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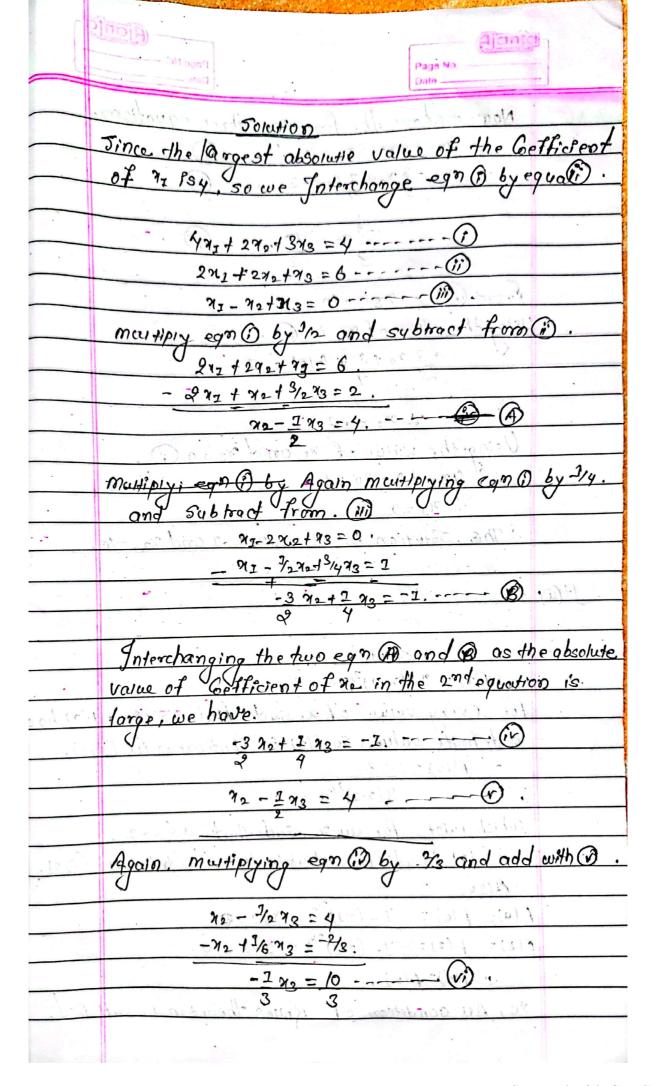
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An 3:0	The principal of mathemmatical Induction	n 8 takes
_	that if Pln) be the statement and if	
C	P(x) is true.	
(i)	P(K+7) is true whenever P(K) is true.	
	then plat is true for an new.	
	Jointion the district than	
	Let Pini be the given statement than,	
	when n=1, P(1) = 32x2 I = 8. is divisible by 8.	
	: PIN is true	
	Let us suppose that plk) is true for he	Λι.
	Olhin 22K - e line 1 - 3	///
	1 (1) = 3 - 1 . + Seditible h. 2 (1)	160
	Mow. Sue show show that P(K+1) is true.	u) hen ever
	Now. Sue show show that P(K+I) is true P(K) is true. Now show, 2 2(K+I) I's division	whenever
	P(K) is true Now show, 2 2(K+I) is true we have.	whenever
	P(K) is true. Now show, 2 2(K+I) is true we have.	
	P(K) is true Now show, 2 2(K+I) is true we have.	
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(b)	Now. Sue show show that P(k+1) is true P(K) is true. Now show, 2 2(K+1) 2 is divi we have, 2 2K+2 1 = 32K-2 - 1 = 32K-3 - 9+9 - = (2 2K-1) 9 + 8. = 9 (2 2K-1) + 8 [Ahich is divisiby by 8 as in the first te divisible by 8 by (1). This relation show that P(K+1) is true with	2 m fs
(b)	Now. Sue show show that P(k+1) is true P(k) is true. Now show, 2 2(k+1) 1 is divi we have, We have, = 2k+2 - 1 = 22k - 9 - 9 + 9 - = (22k-1) 9 + 8. = 9 (22k-1) + 8 [Which is divisiby by 8 as in the first te divisible by 8 by (1). This relation show that P(k+1) is true where P(k) is true. Hence by the the principle of Induction P(n) is true for au neN.	2 m fs
(b)	Now. Sue show show that P(k+1) is true P(K) is true. Now show. 22(k+1) 1 is divi we have. 22k+2 1 = 22k-2 - 1 = 22k-3 - 9+9 - = (22k-1) 9 + 8. = 9 (22k-1) + 8 [Ahich is divisiby by 8 as in the first te divisible by 8-by (i). This relation show that P(k+1) is true where P(k) is true. Hence by the the principle of Induction P(n) is true for au neN. Solution.	rm ss Den ever
(b)	Now, Sue show show that P(k+1) is true P(K) is true. Now show, 2 2(k+1) 1 is divi we have. 2 2k+1) 1 = 22k+2 1 = 22k 3-9+9- = (22k-1) 9+8 = 9 (32k-1)+8 Ithich is divisiby by 8 as in the first te divisible by 8-by (1). This relation show that P(k+1) is true where P(K) is true. Hence by the the principle of Induction P(n) is true for an nen.	rm ss Den ever



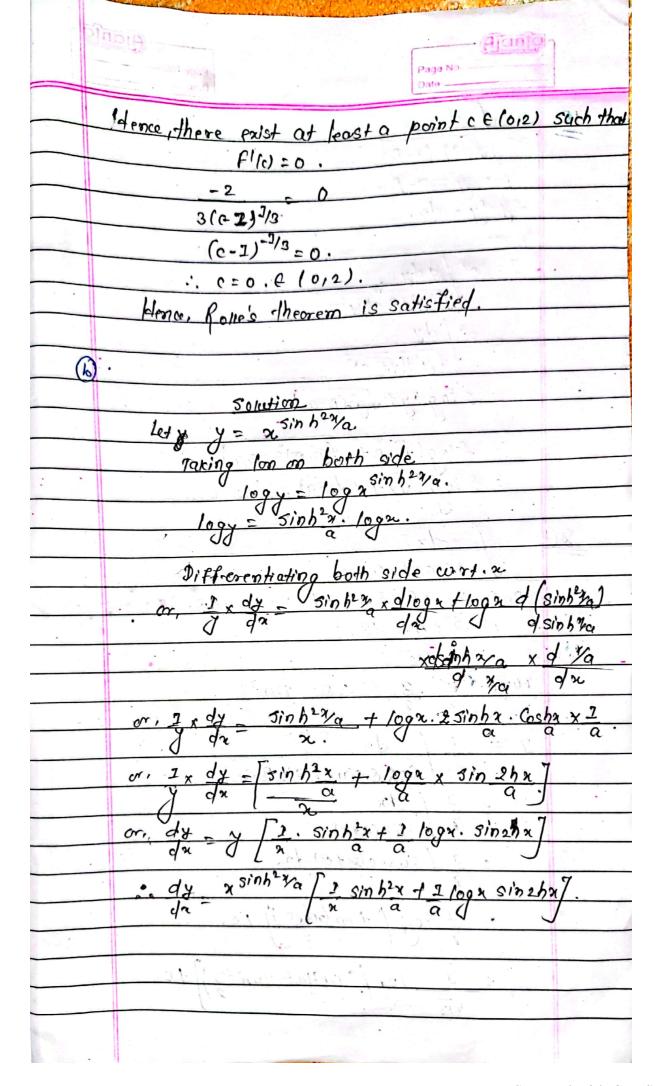
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	5014608)
	1 1 al about 1 3/2/3) 13:
6.	A (x-3) + B(y=2) + c(3-x)=0
	The direction Cosine of the line ferining point
	(-5,3,7) and (2,74,5) are proporting
	7,-7,-2. [: 22-72, 72-32, 32-32)
	- 12 × 12 × 12 × 12 × 12 × 12 × 12 × 12
7	The plane (1) is perpendicular to this plane line.
	If one named to the plane is parallel to Ilis
1	ing. Vacc des of the normal to the plane are
	proportional to A.B.C. and therefore Condition
7	or parallelism gives. (-5,3,4)
PI.M.N	
(ai bi ci	7 -7 -2
	A = 7k, B = -7k, C = -2k. (2rus)
	Substituting the Value of A, B, c in eym().
	7K (7-3) + -7K (7-2) +-2K (3-1)=0.
	K[7(2-3)-7(y-2)-2(3-1)]=0.
	¥
	7x-21-7 y+14-23+2=0.
	which is the required equation of plane.
	which is the required equation of plane.
15	

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		le	31.
	Jointion		
	Total no. of student = 40.		
	Boy (B) = 40-25 = 15 (a) +15(G):		
·	P= 85 = 8 and 95 1/5 =/3		
os bo	If & students are selected at ra	ndom.	
(1)			
- 0	M= no. of f avorable case = c	(25,2) = 300) .
	n = no of possible Case = c (4012	1= 780	
	1 = no. of possible case = -	6.8.CV	
	P (Both oregins) = m 2m = 5	bran In	4 · 10 h
30 6	han any a man man of the	La Vice	
(C)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Phin Toute	· c. Tolic.
(ii)	First is boy and Second is girl.	lavo desent	•
	$= \frac{C(15,1) \times ((25,1))}{C(40,2)}$	Signature	27012
4/14	A land to the control of the control	Tuinende !	anto.
1 00	780 = 5 ²	ouko ma	
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(iii)	10 29/1 - 2012 0 20 0 0 0 0 0 1 0	no.	
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•	Sometion.	
	The steps of solving Grouss elimination method isos.	
	The steps of soluting of earl be	
€)	cet the system of egin be	
	90121 + 005 25 + 003 23 = p5 (1)	
	93, 72 + 982 × 2 + 983 ×3 = 63 - (ii) where 9 11 ≠ 0.	
Stop 7	If an = 0 then we interchang egat and with or	
314-11	(i) In order to make qui to.	
Step-2.	Etiminate is from early and (i) to get an equation	
	Etiminate is from egn (1) and (i) to get an equation with vamable xe and is senote this by (iv) and	
5ter3	Similariy eliminate no From Dand (ii) denonte 14 by (1).	
Step=4	Eliminate no and no from eyn () and v to get an.	
	equation with variable 23. Denote by .	
	Now, we have following three type of eyo. CHAI + 912 M2 + 913 73 = bz ()	
	ana, + 9,2 M2 + 9,3 73 2 6x (1)	
	9/22 72 + 0/23 73 = b/2 D	
	9/2373-=6/3-:	
	where d'221 a'23 1 a'3 1 b'zand b's are Constant.	
	This process is known as forward elimination	
	Process.	
Step-s	· Obtained 13 from (i) Using Latue of 12 in @	
·	This process is Called backward substitution.	
	inis process is called part ward Substitution.	



	- Aignig
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	1 A equations
1	Now, we have the following three equations. You + 270 + 370 = 4
Wierot	4xx + 2x0 + 3x0 = 4
2000	-3 70+ 2 73 =-Z (V)
	7 3 3
	C C C C C C C C C C C C C C C C C C C
100	From (1) 73 = -10 = 0) (10 0) (10 0) (10 0)
	Using the value of re in @ . O and value
	2 9 - x (-10) = +1 :
E KTA TO ST	
	Using the value of no and no in ().
19.00	49 x 1 2 - 30 = 4 2 3 00 - 10 16 16 16 16 16 16 16 16 16 16 16 16 16
V	Sugar 2-30 Exp of Donal Bush Co Calle Sugar
	: The Jointion is 72=9, 72= -1 and 73=-10.
	10 = or in 1 = -10 = 2
170	= 3 30 + 70 = 71 + 6.
e of clude.	1 20 (an long spirition out all garandontal
21 (() = 1-(x-1)2/3. To have the of many
	for every value of a such that osase, fla) hos
	a definite value, so f(x) is Continuous in Co,2).
	3(2-2)2/3
	which exists for an & such that 0 <x<2.< th=""></x<2.<>
· (v) dhe	if (x) is differentiable in open Interval (0,2).
	7/30,
	F(0)= F(0) = I-(0-1)73 = 752=0
	$f(b) = f(2) = 7 - (2-1)^{2/3} = 7 - 1 = 0$
	:. (flo)= flo).
	so, Au condition of Rolles theorem is satisfied.
	The state of the s



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10dt d-182	(SIO) of dame of the line	seal mi
	(x-a) (x-B)	
	pur ye= 7-B.	3/2
	2y dy = d2.	-31
	J= 2º /4dx Cara)	20 11
	1= 2 / 4 dy	Mine Par
	2 / dx	
	- Jy2+(VB-4)2	
	= 2/00/yt \v2/B-9)	2
		-1. K. 437
	= 210g(JA-B+ V(JA-B)2+B-	9- mant
	= 210g (\n-B+ \n-9).	
190) / dx	1601-
	J. 2sinnit 3 cosx	, A. A.
1.836	Put 2= 20000 and 3=0	rsina.
ું મેં તેલ	$r = 2^{2} + 3^{2} = 13$.	31116
2,1	7 = V13	
9 2	70n0= 3 3 1.0= 70n-2	3
3/ 1/ 3	2 = 2 (do 15)	April 10
	$\int \frac{dx}{\cos \theta \sin x + \sin \theta}$	5.0
	/ 9x	CO. 2 0 000
	saladie Tro Sincoln ve 1	
70	= 1 Cosec(x+0) da	7
1	02 4,5 Lower - 1 10 to 1 20 50	ie x v x
	= 1 /0 g (fan (x+00)7	tc. 56
	V13 /09 / Tan 1/1 + 70	$\left(\frac{1}{2}\right) + C$
		7)