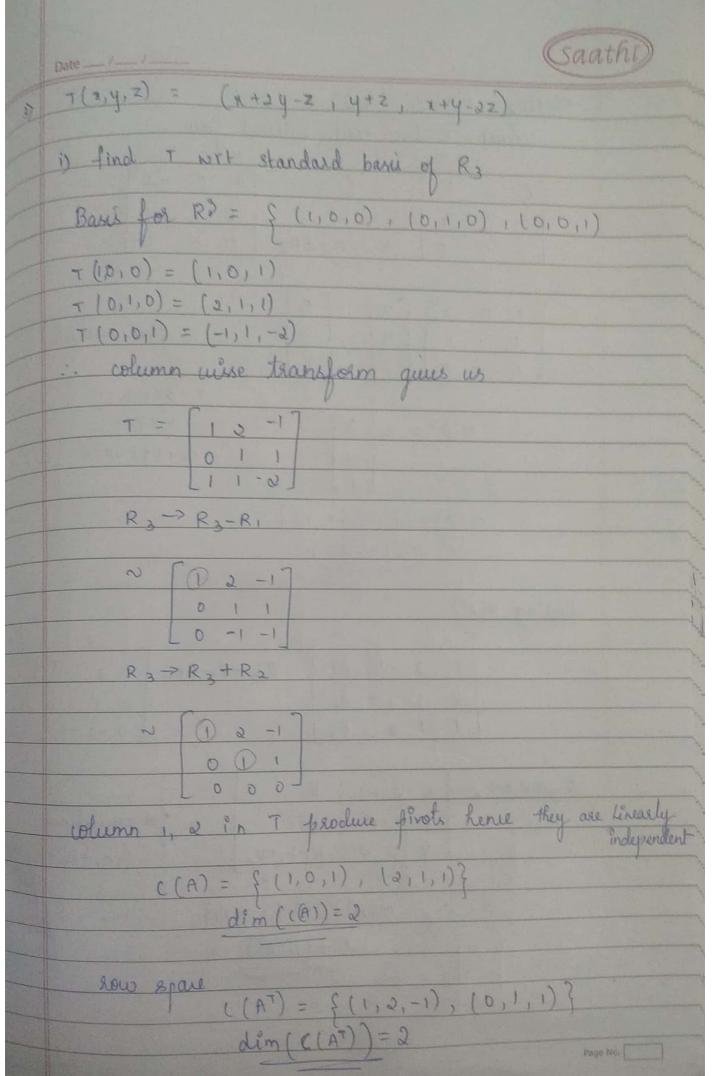
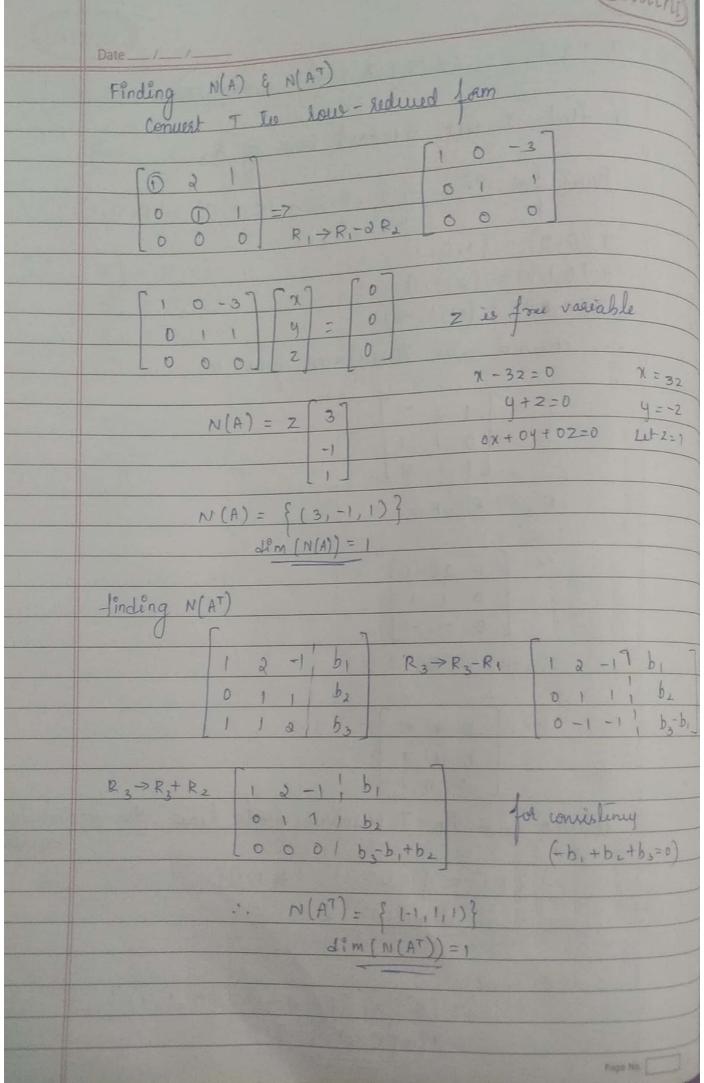
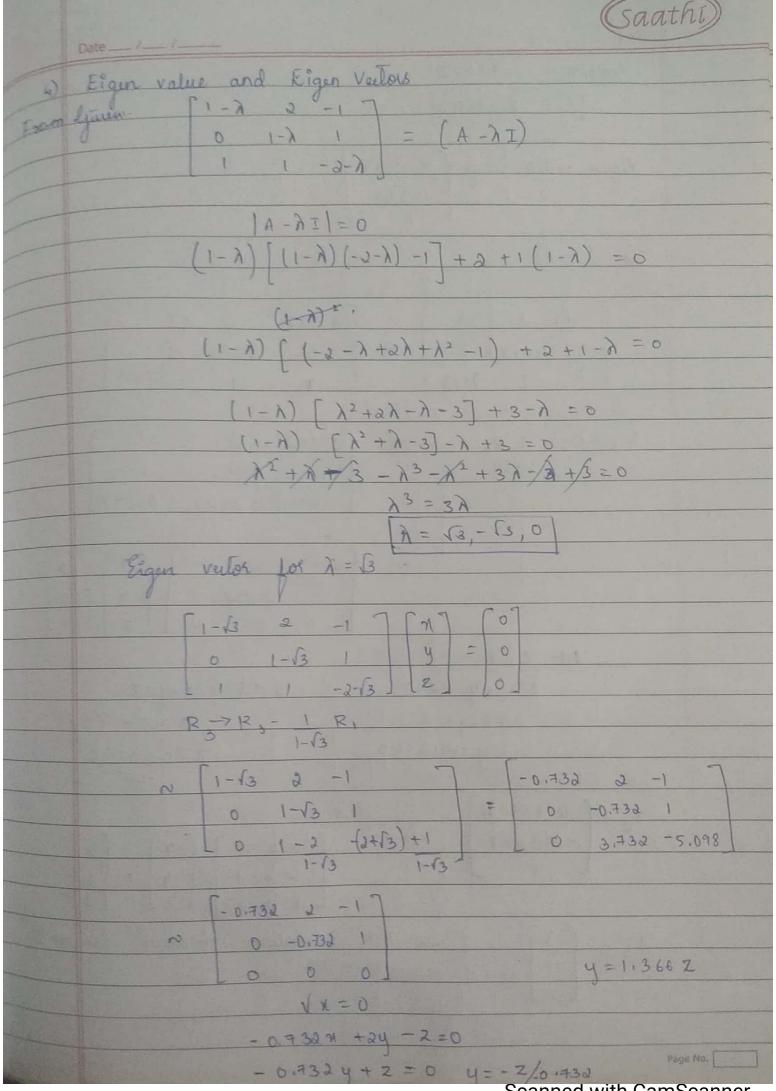
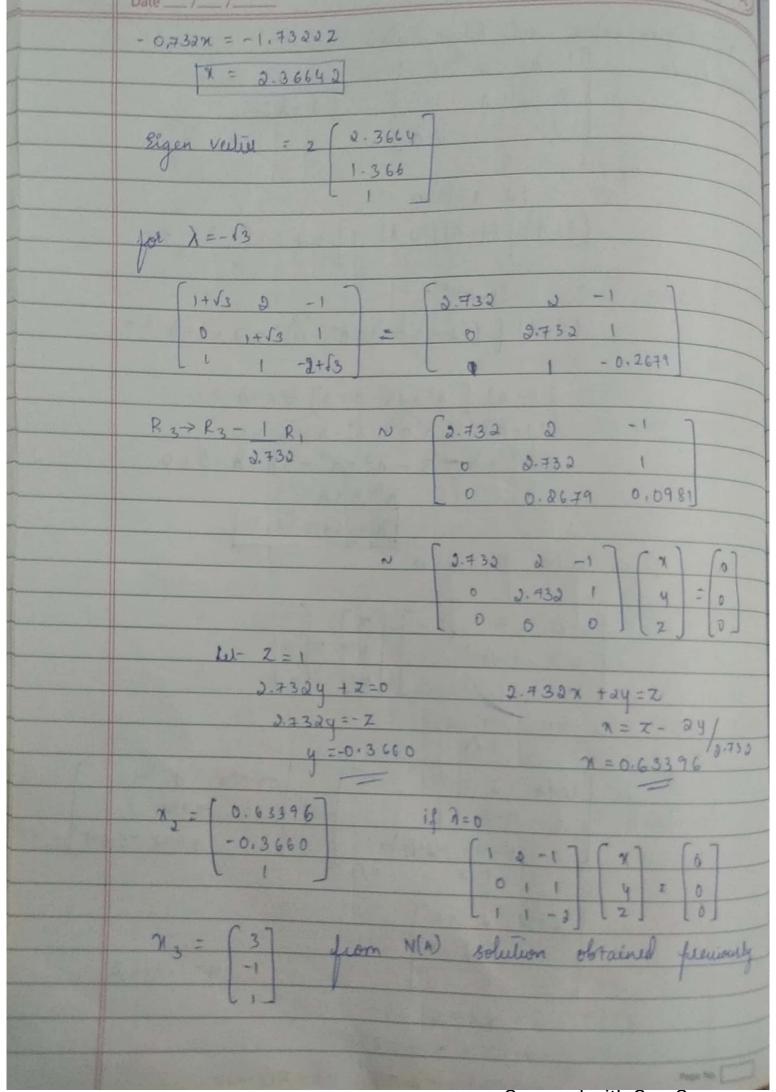


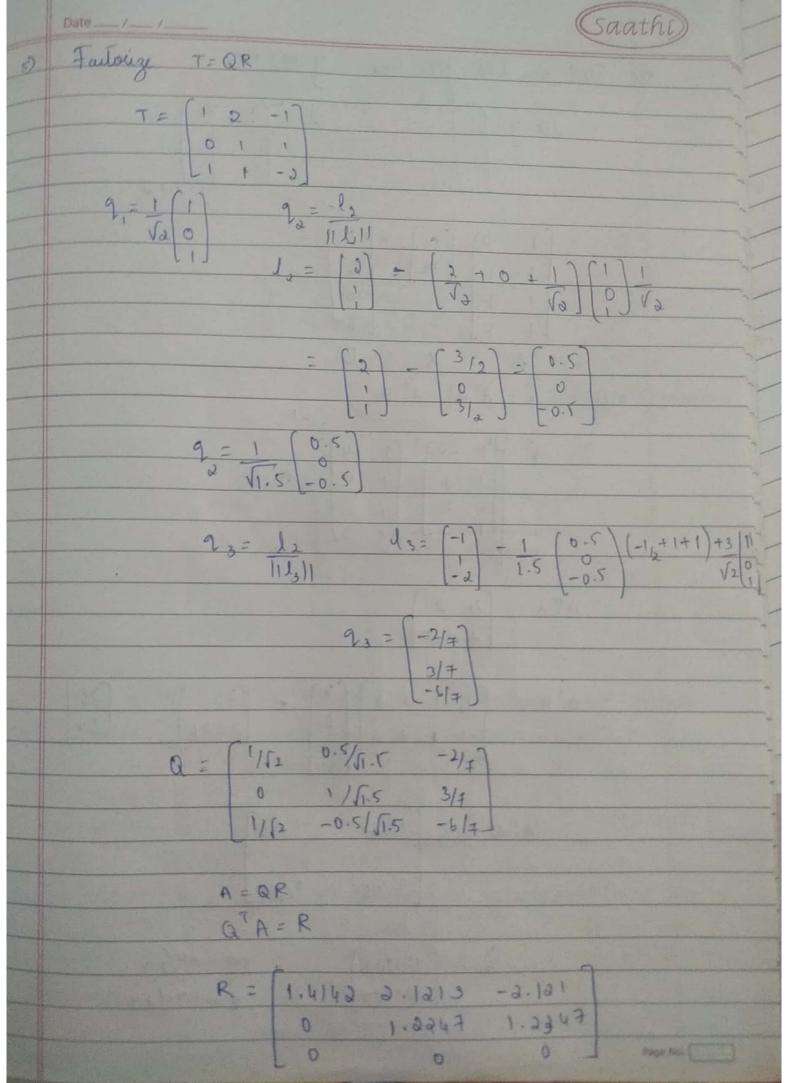
Di	ate_/_/
١ (د	v decomposition of a matrix i.e 1=20
Privo	en A = [2 5 2 -5]
	4 12 3 -14
	-10 29 -5 38
	LID 21 21 -6]
81n p	
8017 1	$\frac{1}{2} \rightarrow R - 2R$ $\frac{1}{2} \rightarrow R + 5R$ 0 0 0 0 0 0 0 0 0 0
	24-7 R4-5R1 0 2 -1 -4
1	0 -4 5 13
	Lo -4 11 19]
0	
	$2 \rightarrow R_1 + 2R_2$ \sim $2 5 2 - 5$
	9 9 -1 -4
	0 0 3 5
	L 0 0 9 11
R	4 > R + - 3 R ~ D 5 2 - 57
	0 2 -1 -4 =1)
	0035
	000-4
	L= [1000]
	2100
	-5-210
	5-131
37 51	$(\pi, y, z) \neq A = LU$
	252-5]252-5][10007
	4 12 3 -14 = 0 2 -1 -4 2 100
SELECTION OF THE PARTY OF THE P	1-10-29-5 38 0035 -5-210
	L10 21 21 -61 L000-4] L5-231]
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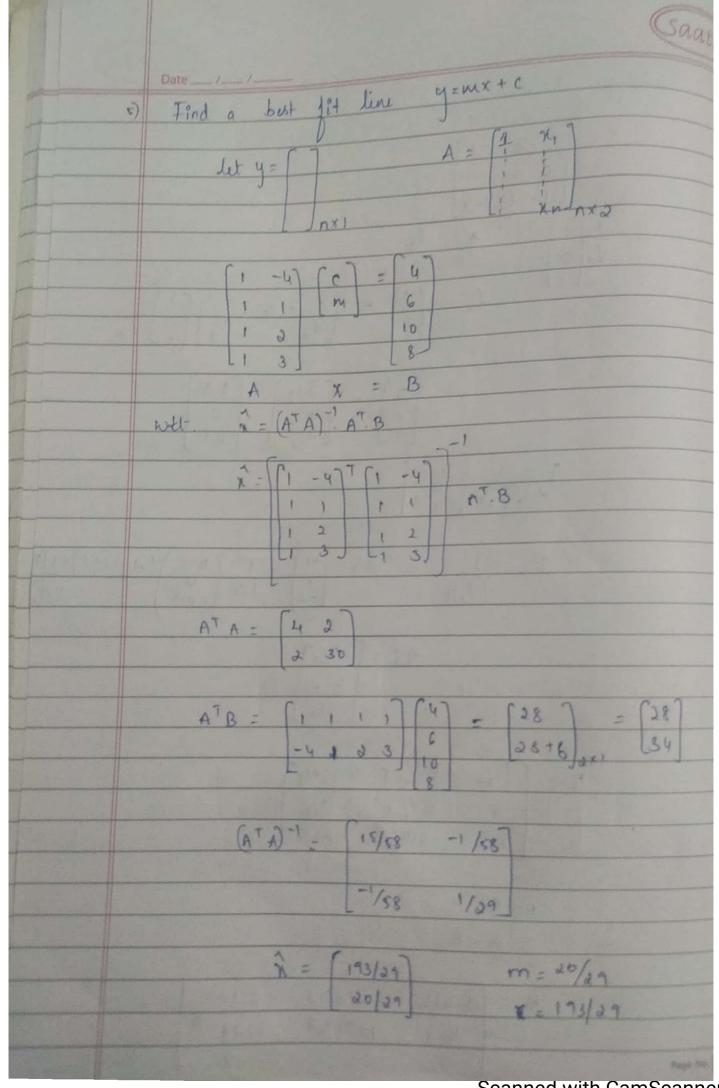






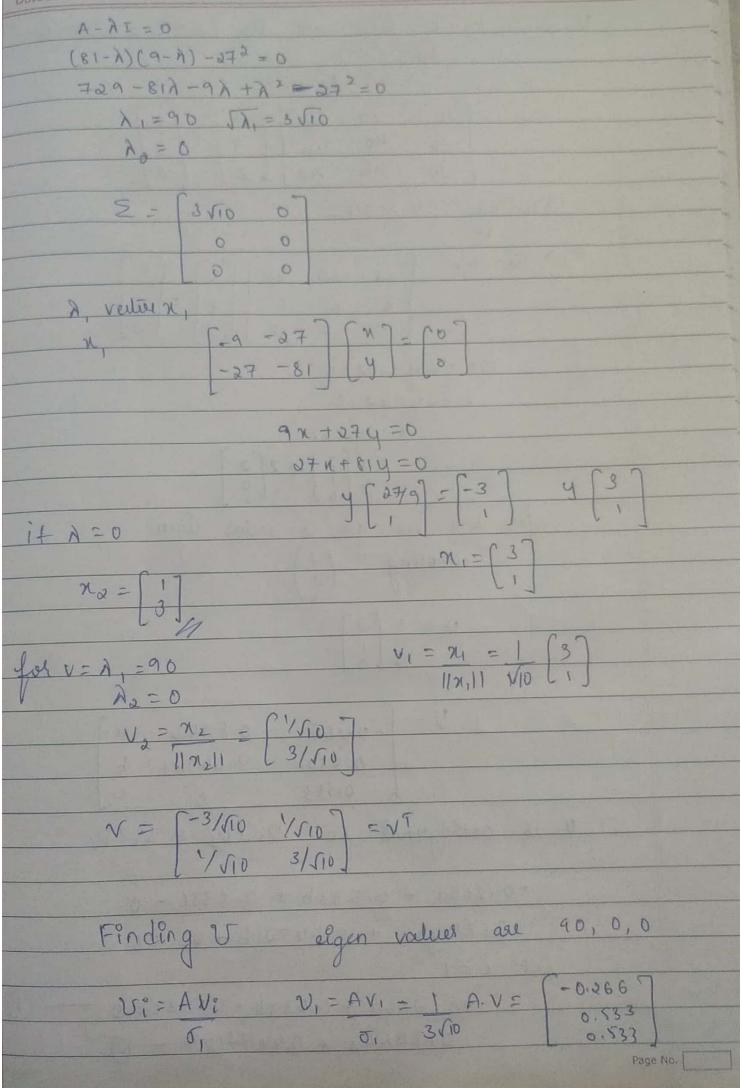


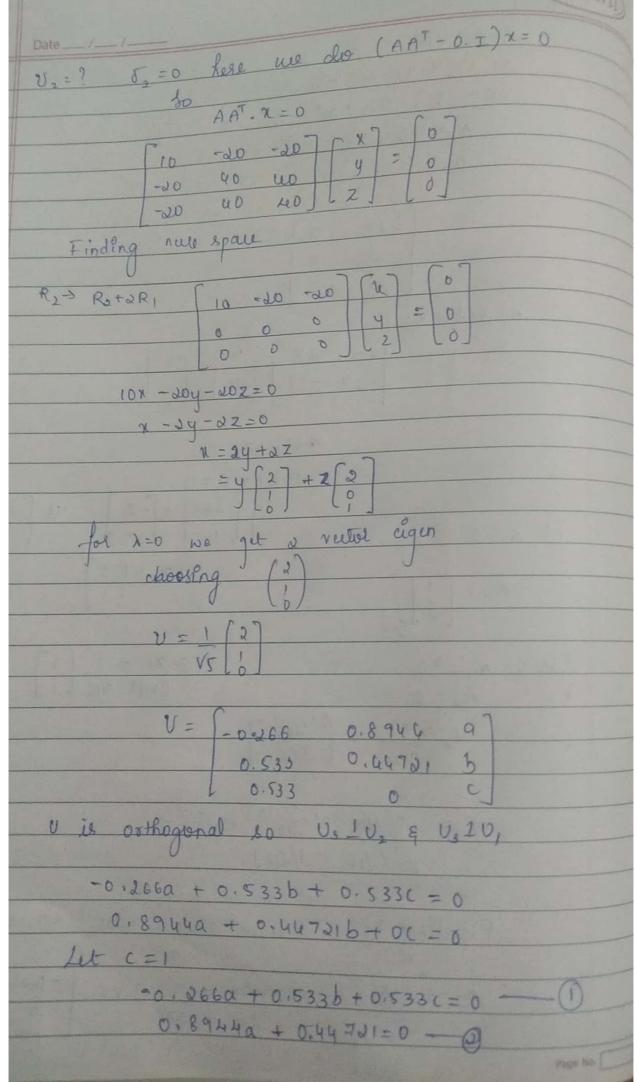




Late 1	
Gaathi	
000-1-1-	=
tonsider the Equation of plane	
Let V= [1 3 04]	-
must	
$x = -x_{2} + (-3)^{1}x_{3} - 4x_{5}$	-
let N. = M -1 (-3) (-4) N2 = K1 4 K 0 + K2 0	
N2 = K1 1 + K2 0 + K3 0 N3 0 1 1 K3 0	
24 0 0	
A = [-1 -3 -4]	-4
TA. T(ATA) A = 9 TXW 0 0 1	
o 10 using calculation	
1000	
[0 0 1]5X3	
P = [36/27 -1/9 0 A/VT]	
-1/27 Ob/27 -1/9 O 1/27	1
-1/9 -1/9 0/3 0 4/9	
0 0 0 0 0 -4/27 -4/27 0 16/27	
L-4627 -4/27 -4/9 0 16/27	
To For what values of a is the malin +ve definite	
All w. x.+. Determinant of principle submatrice >0	
A = [a a 2] !	21
203	
222	44
tal>0 30 a>0	
a2 >0 40 a2-4>0 (a-2)(a+3)>0	
2 a a 2>4 (a+d)70	
a>±a a>a at	27
40 0 = 0, -1, 1, -2, 2	>-2
Q € [-3+2]	
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7	141 > 0
	$ A > 0$ $ a(a^2-4) - 2(3a-4) + 2(4-2a) > 0$ $ a(a^2-4) - 2(3a-4) + 4(2-a) > 0$
	$a(a^2-4) - 2(3a-4) + 4(2-a) > 0$ $a(a-2)(a+2) - 4(a-2) + 4(2-a) > 0$
	1 1 1 1 1 2 - 4 1
	12-0) (a(a+2)(-1)+3)
	1,3-120 +1670
	2-2>0 =7 022
	072
	a7-4
	۵>۱
521	∴ a ∈ (2, ∞)
	$f = \chi^T A \chi$
	$\frac{1}{1+2\chi_{1}^{2}+2\chi_{2}^{2}+2\chi_{3}^{2}+2\chi_{1}\chi_{2}+(-2)(\chi_{2}\chi_{3})}{-1/\sqrt{-1}}$
	an a
	$\alpha_{31} = \alpha_{13} = 0$
	A = 2 -1 0
	-1 2 -1
201	LO -1 2]
	Tost contended the bills to the bulls to the bull of t
3)	8VD of A = -3 1
	6 -2
	[6-2]
	Find ATA
	-27 9
	$\lambda_1, \lambda_2 \approx A^T A^2$
	\ \[\begin{array}{cccccccccccccccccccccccccccccccccccc
1	[-27 9-7]
	Page No.





Date _ /- / (Saaths)

Eq (5) $\times 3.3634$ - 0.89440 + 1.70163b = 1.79216

+ 0.89440 + 0.44721b = 0 0.239b = 1.79216 0.8 = 0.8 0.8 = 0.4 0