ID: 15815

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TD = 15815 Linear Algebra Name: Albred Juncial BS(SE) Question 1 Answer: TD3 1 - Lost-ID O 0 1 -6 TOS · Puting values 15(8)(5) which is My OTD, - 5 0-C) -6 we will add 5 times of R Row 3 to Row 2 S R = -5+5 010 7+(-30) R2+ 1+0 0+0 · O - 6 58.2 1____ Hence 0 -77 -6

Linear Algebra TD:15815 Nome Abred Juncial Question 2 Anguer. and first are operation There 2 is from first matrix to sound Gne . reverse: and (1) 5 -Л 2 -4 C - 5 C elementary Row operation on USIN by Substracting 2 times row -fco 2. 407 5 3 -1 R -4 2 1 \land 0 R3-2R2 -5-687 -1-4 2-2 000 be comes: this 50 5 3 -1 2 O 5 2 0 C (2) 2 0 0 3 0 41.

the state of the San Street Street TD : 15815 (2) C 0 Now reversing the procees: Using elementary row operations on by adding row 3 ZR to Rz 5 R 2 i () 6+2 3+(-8) -5+4 R3+2R2 (340 2 5 - 1 - 4 0 - 5 --O2 (b) G: e o 00 C T = is echelon form C 0 00 7-C 0 0 0 0 Power: No, As all the entries above and below the diagnet element are zero which is the case of Reduce enchelon form an not echekin.

ID . 15815 LAlooh O-b) D T is echelon form e \sim 0 0 ٥ .. 0 0 0 Aguer, yos, because All the element below diagnal are zero. 5 5 0 0 is reduce echeton 0.5 0 1 0 0 1.4 Answer: yes, because all the entering of diggoul are zero 0 07 di O U'O is in reduce echelon 0 1.4 121 0 C . . : · /· . 8 ···· . - 1 1.4 Answer: No!, because all the element of Row 2 is zero. 2 vestion 3. Next Page. · .

ID # 15815 L. Algebra Question 3 In row everthelen form only all the element below eliagonal is zero while above elements are hon-zero the reduce now echelon form all the element below and above the diagonal are zero with the help of reduce echelon form find out the values of variables used in the system of equation for example 2x + 5y + 32= 4 9x + 3y +2Z= -5 by solving this x + 7y - 67 = 1 we get 2 -5 Using reduce echelon 6 1 0 0 here we can 2 U 1 0 -5 See clearly 00 6 x= 2, y= -5, z= 6

10= 15815 1: Algebra 6 54 estion 3(b) Dutling the in _____U 8 5 1 2 . . 0 0 150 . 7 -. . . Row Now -Roy USIM operation on. from Q Substracting 20 b 1-addin 8R bstraiting 1-- 50 R · 65 + : 211 1 0-1. 8 5 S R2 -2R1 8-10 -1-15 7-2 R 2+8R1 0+40 0+64 - 8+8 - 4-5 15-8-R we get; 8 5 - 1 S -7 -17 C .* 64 0 40 7 11 1-1 . . 0. . . -91 12 37 Ŷ Usiy Rew operation . Ra Now on 5. 20 R2 anddin 1. 11 R 1 8 1 . 5 1 0: -17 Q. 10, 40-40 64- (-340) R2+ 20D 1.11 0

ID_15815 L. Alge bre Q3 (b) - Continues .:. uc get 5 8 C -17 -2 0 CS May 0 -9 Now usity Rew operation on A 2 times of . Rawly Minus 9 times R 5 8 1 -17 C -2 CS C 494 -18-18 2Ry - 9R2 14-(-153) 0-0 5 8 R -17 -2 C 1 0 . • 0 404 167 0 C ÷., : Now lest step multiply Ry wit yoy and multiply Dz ith 167 and minus them 5 8 -17 -2 61 YUY C C 67468-67468 YOURy - 167R2 () 0 8 hence :. -2 -17 echolog f 2 A. 0.0.0