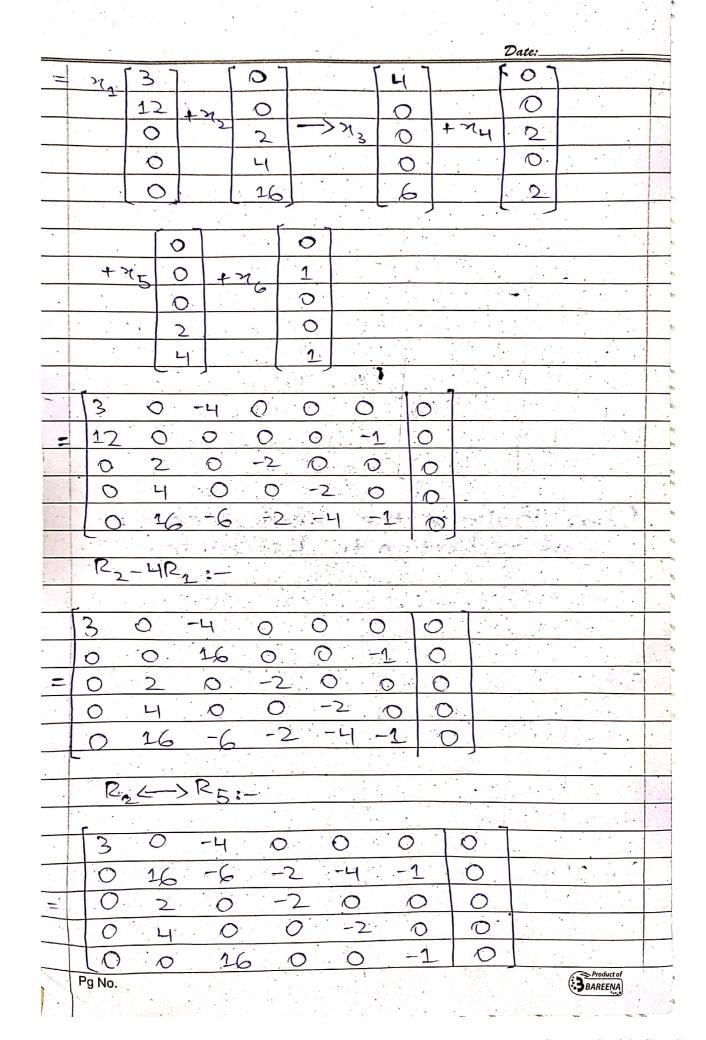
| INEAR ALGEBRA ASSIGNMENT 01 |
|----------------------------------------------------------------------------------|
| |
| Submitted by: - downed Saleem |
| Enrollment: - 02-431222-048 |
| Section: BSE-2B |
| |
| |
| No:01:- 272-372+273-74=0 |
| $-n_1 + Ll_1 + 2n_1 - 3n_2 = 1$ |
| $\frac{2n-3n+5n=-3}{2}$ |
| |
| $= \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Y 2 75 1 |
| |
| $R_1 = 2:$ |
| 1-1-2-3 |
| [1 -3 1 -1 0] |
| = -1. $+1$ 2 -3 1 |
| 0 2 -3 5 -3 |
| |
| $R_2+R_1:-$ |
| |
| [1 -3 1 -3 0 |
| 0 5/2 3 -72 1 |
| 0 2 -3 5 -3 |
| |
| $\frac{2 \times \frac{2}{5}}{3}$ |
| 1 -3/2 1 2/5 |
| 0 1 6/5 -7/5 2/5 |
| $= [0 \ 2 \ 3 \ 5 \]$ |
| $R_{-2R_{3}}, R_{1} + \frac{3}{5}R_{2} : -$ |
| 3 2 1 2 2 |
| Pg No. |
| 그 그 그는 그는 이번 이 그 그는 일이 이 모든 사람들이 되는 사람들이 모든 이렇게 하는 것이 모든 것이 되었다. 그는 것은 그는 그래 없다. |

| | Date: |
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| 1 [1 0 14/2 -13/5] | 35] |
| 0 1 6/5 -7/5 | 2/5 |
| 39, | -19 |
| 5 5 | 5 |
| Px -5/27 ?- | |
| 1 0 24/6 -13/6 | 3/5 |
| = 0 1 615 -75 | 2/5 |
| 0 0 1 -13/ | 19/27 |
| | |
| R2-6/FR, R1-14/5R | |
| 6 | 527 |
| = 0 1 0 13 - | 4/4 |
| 0 0 1 -13/ | 19/27 |
| 2 :5 fx00 | |
| $\lambda = 0$ | |
| The state of the s | |
| $=> \chi - 13 \chi = 19$ | |
| 3 9 27 | |
| 23 - 23(9) = 19 | |
| 27 | |
| $x_2 = 19 + 13$ | |
| 27 | |
| $x_3 = 370$ | |
| 27 | |
| => | |
| 72+ 2 x1 = -4/g | |
| 3 | |
| 72+2(9)= | |
| | |
| 12=-4-3. | |
| 7 31 | |
| 2 - 01 | |
| Pana | Product of |
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| 1 + 13 = -37 | |
| 9 27 | |
| $x + 13/\alpha = -37$ | |
| 27 | |
| x = -37 - 12 | |
| 27 | |
| ×388 · · · | |
| 27 | |
| [Ma] [-388] | |
| 27 | |
| $\frac{1}{2}$ | |
| Answer | |
| M3 370/- | |
| 27 | |
| 21 0 | |
| 4) | |
| | O o so bis |
| Q:03 Balance the chemical Row reduction to Echelo | Egyn by |
| Kon reportion to conso | |
| For 3PLN 100 M O -> 2PL | 0.00 |
| Egm: - 3PbN4+2CrM20 -> 2PL | 2 3 2 2 |
| + 211 | mO2.+NO |
| | -: |
| Sor Vector formation: | n |
| IPb I | |
| | |
| | |
| Mn | |
| | |
| -> /2011 \ /26 M. D. \-> | 2 (2Pb 0) |
| 1 (31 DIAL) + 8(2 (2081/1828) | 3 2.3 |
| +n. (cx 0)+x (2Mn0)+x | |
| | 1. (NO) |
| + 1/4 (Cx2 O2) + 2/5 (2MnO2) +3 | (E(NO) |
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| 4 (-1 2 2) + (5 (2 2) | Product of BAREENA |



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| R3=2, R4=2:- | | | 9 | | * |
| | | • | | | |
| 30-4000 | 0 | Y | T V | CA W I | |
| 0 16 -6 -2 -4 -1 | 0 : | | | | |
| = 0 1 0 -1 0 0 | 0 | | ٠ | | |
| D 2 0 0 -1 0 | 0 | 1 m | | | |
| 001600-1 | 0 | , <u>F</u> | | | |
| | | | | ~ | - |
| -16R3+R23-8R4+R2 | | 1 | | | |
| | | | | | |
| = 30-400 | 0 | \bigcirc | | | - |
| 0 16 -6 -2 -4 | -1 | 0 | | | |
| 0 0 -6 14 -4 | -1, | 0 | | | |
| 0 0 -6 -2 4 | -1 | 0 | | · 4 · | The latest department of the latest department |
| 001600 | -1 | 0 | | | - |
| | | | | | |
| -R4+R3>6R5+16R3 | | | | | |
| | 3 2 | | V | | |
| 30-40000 | | | | | |
| = 016-6-2-4-10 | | | | | 1 |
| 00-614-4-10 | | | - | _ | |
| 00016-800 | | | | | 1 |
| 0 0 0 224-64-220 | | | | | |
| | | | <u></u> | | 1 |
| P4:8, P5:2 | | | | | _ |
| | | | | | - |
| 30-40000 | | • | | | - |
| 0 16 -6 -2 -4 -1 0 | | | | | 1 |
| = 00 -6 14-4-1 0 | | | | | |
| 0002-100 | | | | e de la la compe | 70% |
| 000112-32-110 | | | | | |
| | -, -, -, - | | 2361 | | |
| | | | | Product of | |
| Pg No. | | | | BAREENA | |

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| 1-6R1+ LIR, -R+R | |
| 1 3 2 3 | |
| 1-180056-16-40 | |
| 0-160160.00 | |
| = 0 0 -6 14 -4 -1 0 | |
| 0 0 0 2 -1 0 0 | |
| 0 0 0 112 -32 -11 0 | |
| | |
| R ₁ =-2, R ₂ =-8 | |
| | |
| 900-28820 | |
| 020-2000 | |
| = 00 -6 14 -4 -1 0 | |
| 0002-100 | |
| 000112-32-110 | |
| | |
| R1+1-1R4, R2+R4, R3-7R | 43R5-56R4 |
| | |
| 9000-620 | |
| = 0200-100 | |
| 00-603-10 | |
| 0002-100 | |
| [OOOO24-11]O | |
| 110 . 0 2110 0 . 90 | 0 52110 0 |
| 4R1+R5, 24R2+R5, -8R3+ | -12,52412,+12, |
| | |
| 360000-30 | |
| 0 48 0 0 0 -11 0 = 0 0 48 0 0 -3 0 | |
| 0 0 40 0 0 3 | |
| 0 0 0 48 0 -12 0 | |
| [000024-11] | |
| | |
| Pg No. | Product of |

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| P1:3, R:3 | |
| | |
| = 1200000 | |
| 0 48 2 | * |
| 0 0 16 0 0 | |
| 0.00 | |
| 0 0 0 48 0 -11 0 | |
| 0 0 0 2411 0 | |
| R1-12, R-48, R-16 | |
| 2-12, R, = 48, R, = 16 | > Ry = 48 - 124 |
| | 7. 03.5.21 |
| 10000-120 | |
| = 0 1 0 0 0 -11/48 0 | |
| 1000 1000 | |
| 0 0 0 1 0 -12 0 | |
| 00001 -1240 | |
| | |
| et n = 48 | |
| 6 | |
| => 75-11/48 =0 | |
| 24 (48) = 0 | |
| 22 = 0 | |
| 5 - 22 - 0 | |
| $\chi_5 = 22$ | 3 - 1 - 1 S |
| $=>$ \times $-\frac{11}{2}$ \times $=0$ | |
| 48 | |
| 2 -11 (48) =0 | |
| 48 | |
| 2 = 11 | |
| | 2 |
| => 2 -1/110 | |
| => 23-16(48)=0 | |
| n2 = 0 /12 = 3 | |
| | |
| | |
| | |
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| 21 (48) = 0 | |
| => 2, -11 (48) = 0 | |
| $n_{i,j} = 11$ | |
| | |
| $=> \chi_1 - \frac{1}{10}(48) = 0$ | |
| $\lambda_1 = 1$ | |
| now putting refue's in ear - | |
| | |
| + 11(2CxMm, 0, -> + 11(CxQ) + 22(2Mm | 3 (2Pb 0) |
| + 21 (Cx 0) + 22 (2Mm | 02) + 48 (NO) |
| | |
| | |
| 12PbN4+22CxMm0 -> 6Pb2 | 03+11Cx0 |
| | |
| + 44Mm02+48NO | |
| | |
| L-H-S = 2.H-S | |
| Pb = 12 $Pb = 12$ | |
| N=48 $N=48$ | |
| $C_{\gamma} = 22 C_{\gamma} = 22$ | |
| 0 = 470 $0 = 176$ | |
| 0=1/6 0 -1/6 | |
| | |
| 2:04 for what values of | n the given |
| by sb, and b, where | on of |
| V= h] and by where | -11 h - [1] |
| 1 3 2 32 | 4 3 3 -2 |
| 3 | 3 2 |
| | 7 (5) |
| | |
| | |
| | |
| Pg No. | Product of BAREENA |
| | (1) |

| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
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| $\begin{bmatrix} 3 & -1 & 1 & h \\ = 2 & H & -2 & 1 \\ 0 & 3 & 2 & 3 \end{bmatrix}$ $3R_{2} - 2R_{1}$ $3 & -1 & 1 & h \\ = 0 & 1H & -8 & -2h + 3 \\ 0 & 3 & 2 & 3 \end{bmatrix}$ $1HR_{3} - 3R_{2} = -$ $\begin{bmatrix} 3 & -1 & 1 & h \\ -2h + 3 & -2h + 3 \\ 0 & 0 & 52 & 6h + 33 \end{bmatrix}$ $= > -6h + 33 = 52$ $6h = 19$ $h = 19$ | |
| $ \begin{bmatrix} 3 & -1 & 1 & h \\ = 2 & H & -2 & 1 \\ 0 & 3 & 2 & 3 \end{bmatrix} $ $ 3R_2 - 2R_1 $ $ 3 & -1 & 1 & h \\ = 0 & 1H & -8 & -2h + 3 \end{bmatrix} $ $ 0 & 3 & 2 & 3 $ $ 1HR_3 - 3R_3 = 0 $ $ 2HR_3 - 3R_3 = 0 $ $ 3 & -1 & 1 & h \\ = 0 & 1H & 8 & -2h + 3 \end{bmatrix} $ $ 0 & 52 & 6h + 33 $ $ 0 & 52 & 6h + 33 $ $ 0 & 52 & 6h + 33 $ $ 0 & 52 & 6h + 33 $ $ 0 & 6 & 6 & 6 & 6 & 6 $ $ 0 & 52 & 6h + 33 $ $ 0 & 6 & 6 & 6 & 6 $ $ 0 & 52 & 6h + 33 $ $ 0 & 6 & 6 & 6 $ $ 0 & 52 & 6h + 33 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 6 & 6 & 6 $ $ 0 & 7 & 7 & 7 & 7 & 7 & 7 $ $ 0 & 6 & 6 & 7 & 7 & 7 $ $ 0 & 6 & 7 & 7 & 7 & 7 $ $ 0 & 6 & 7 & 7 & 7 & 7 $ $ 0 & 6 & 7 & 7 & 7 $ $ 0 & 6 & 7 & 7 & 7 $ $ 0 & 6 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 & 7 $ $ 0 & 7 & 7 & 7 &$ | \top |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| | + |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - |
| $3R_{2}-2R_{1}$ $3 -1 1 h$ $= 0 144 -8 -2h+3$ $0 3 2 3$ $14R_{3}-3R_{3}=-$ $3 -1 1 h$ $= 0 144 -8 -2h+3$ $0 0 52 6h+33$ $-> -6h+33 =52$ $6h = 19$ $k = 19$ $k = 19$ 6 $-> 52b_{3} = 6h +33$ $52b_{3} = 6 $ | - |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | ` |
| $= 0 14 -8 -2h+3$ $0 3 2 3$ $14R_3 - 3R_3 = 0$ $= 0 14 -8 -2h+3$ $0 0 52 6h+33$ $= 0 -6h+33 = 52$ $6h = 19$ $h = 19$ | • |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | . |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $= 0 14 - 8 -2h + 3$ $= 0 0 52 6h + 33$ $= 0 -6h + 33 = 52$ $6h = 52 - 33$ $6h = 19$ $h = 19$ 6 $= 0 52 6h + 33$ $52b_3 = 6h + 33$ $52b_3 = 6 9 + 33$ | |
| $= 0 14 - 8 -2h + 3$ $= 0 0 52 6h + 33$ $= 0 -6h + 33 = 52$ $6h = 52 - 33$ $6h = 19$ $h = 19$ 6 $= 0 52 6h + 33$ $52b_3 = 6h + 33$ $52b_3 = 6 9 + 33$ | - 1 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $= -6h + 33 = 52$ $6h = 52 - 33$ $6h = 19$ $k = 19$ 6 $= 52b_3 = 6h + 33$ $52b_3 = 6 + 33$ | > |
| $6h = 52 - 33$ $6h = 19$ $h = 19$ 6 $= > 52b_3 = 6h + 33$ $52b_3 = 6 \cdot 9 \cdot + 33$ | |
| $6h = 52 - 33$ $6h = 19$ $h = 19$ 6 $= > 52b_3 = 6h + 33$ $52b_3 = 6 \cdot 9 \cdot + 33$ | - |
| $6h = 19$ $h = 19$ 6 $= > 52b_3 = 6h + 33$ $52b_3 = 6 \cdot 9 \cdot + 33$ | |
| $h = 19$ $= > 52b_3 = 6h + 33$ $52b_3 = 6 \cdot 9 \cdot + 33$ | |
| $=> 52b_3 = 6h + 33$ $52b_3 = 6 \frac{19}{4} + 33$ | |
| $=> 52b_3 = 6h + 33$ $52b_3 = 6 \frac{19}{4} + 33$ | |
| $= 52b_3 = 6h + 33$ $52b_3 = 6 \cdot 19 \cdot 1 + 33$ | |
| 6 | |
| 6 | |
| $52b_3 = 52$ | |
| 13 1 | |
| \mathbf{x} | |
| 3 | |
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|------------------------------------------------------------------------|-----|
| 76 -25 -50 10 | |
| = 0 3631 -1326 250 | |
| 0 -1326 5556, 500 | |
| | |
| 3631R3+1326R2:- | |
| | |
| 76 -25 -50 10 | |
| = 0 3631 - 1326 250 | |
| 0 0 18415560 2147000 | |
| | |
| => 184155602 = 2147000 | |
| | |
| $\chi_3 = 107350 = 2825$ | |
| 920778 24231 | |
| | |
| $=> 3631 \times -1326 \times = 250$ $3631 \times -1326^{3} 2825 = 250$ | |
| $3631 \times -1326^{3} 2825 = 250$ | |
| 24231 | |
| | |
| 3631×2 - 3745950 = 250 | |
| 24231. | |
| 72=900 | |
| 8077 | |
| | |
| => 762 -252 -50x = 10. | |
| 1 2 3 | |
| 76×12-25/900 -50/2825 | =14 |
| 8077 24231 | |
| 7621 - 22500 - 141250 = 10 | |
| 8077 24231 | |
| | |
| $\chi_{1} = 5935$. | |
| 24231 | 1 |
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| [n] | 5935 | |
| | 241231 | |
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| 7 = | 900 | Dusmer. |
| | 8077 | |
| 7 | 2825 | |
| | 24231 | |
| | | |
| ordin the constraint of the co | | |
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