| j | Name: M. Nouman Obana   |
|---|---|
|   | Mans: M. Nouman Afrol<br>Lg No. SP20-BCS-064  |
|   |   |
|   | Properties of Octominants   |
| 1 | A scaler value gescialed  |
|   | with a square markin.   |
| 2 | Let A # 2 then metrix. A is an  |
|   | inversible matrix   |
| 3 | Interchangest the scharminants than yes   |
|   | (n) Sign of doterminantly   |
| 4 | It a you or column are  |
|   | Multipeied with a scalar  |
|   | the determinant viel also be  |
|   | multipad.   |
|   | matrix Oderminant   |
|   | Determinant B a Dealer  |
|   | value It is a funtion of  |
|   | nature of matrix.   |
|   | nature of matrix.   |
| 1 | Co-factor of matrix A   |
|   | Civ = 1-11itj det Aii   |
|   | 10 20 11 1 10 10 10 10 10 10 10 10 10 10 10   |
|   | A= (au )  |
|   | an agm ()   |
|   | azu azu   |
|   |   |
|   | an anm  |
|   |   |
|   | 6/2001 6/2001   |
| - |   |
| 1 | Carlo |

| Civilia Albertin                                    | _ 5u                                  |
|---|---------------------------------------|
| determinant de 2010 C non Zivrois                   | t                                     |
| Le NO. Land Stranger                                | AS                                    |
| [ b] - od-bc  |                                       |
| a b - ad-bc  ( straggerists) in still saggers       |                                       |
|   | 1                                     |
| Sa 607  | Pl =                                  |
| del-ali-th)-b(li-t])-c(dh-g)                        |                                       |
| g hi  |                                       |
|   |                                       |
| Reflection Property                                 | 7-                                    |
| It wike be as                                       |                                       |
| Example   | 2                                     |
| $M = \begin{bmatrix} 2 & -3 & 5 \end{bmatrix}$      |                                       |
| 6 0 4   |                                       |
| Markey attending of                                 |                                       |
|   | d                                     |
| m1=12-35/261  | 0                                     |
| 6 0 4 5 -3 05                                       |                                       |
| 1 5 -7   5 4 -7                                     |                                       |
| This will be defind in                              |                                       |
| two courses the sections                            |                                       |
| casel casel   | 100                                   |
| m1=2(0-20)-(-3)(-4-2w) [m](=2(-20)-((2)(-25)+((-12) |                                       |
| +5(30-0) =-40+24-12                                 | R                                     |
| IM/2-40-138+50 == 28                                |                                       |
| <u> </u>  |                                       |
|   | 7.                                    |
|   | )                                     |
|   | 216                                   |
|   | · · · · · · · · · · · · · · · · · · · |
|   |                                       |
|   | M                                     |
|   |                                       |

| - Switching property                                   |
|--|
| Exemple After suite                                    |
| A=[1 45] A=[1 45]                                      |
| 2 3 7 4 1 6  |
| 4 1 6 2 3 7  |
|  |
| Pl=1(18-2)-4(12-28)+5(2-6)  A -1(7-18)-4(28-6)+5(12-2) |
| (11)-4(-18)+5(-10) (1-11) ex(1.8) +56 hel              |
| = 11 + 72 -1050 = 11 - 72 +50                          |
| - 33 33  |
|  |
|  |
| Zero Property  |
|  |
| Df any you of column                                   |
| de matriz iz zore then                                 |
| detorminant to motive vie                              |
| do be zero.  |
|  |
| A= [1 6 3]   |
| 4 6 3  |
| 170 Dishipped sometimes.                               |
|  |
| 1 [A] = 0  |
| Sum.   |
| Reflection property                                    |
| 34 elments of -6                                       |
| any motion A are                                       |
| expressed as Sum of                                    |
| matrix then the Itominant                              |
| cou be expressed of                                    |
| sum of two cx  |
| Moje determinants.                                     |
|  |

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| ld   | Traced things  |
| Land Harry Still   |  |
| 2 9 2   7  | 4 2 2 2  |
| WEPJW  | K P + W K P  |
| patoi jathi meto V   | n $m$ $a$ $b$ $a$  |
|  |  |
| W. William State and in  | Lagrange Lagrange  |
| Triangular propa   | xty Chillian   |
| U distribution of the second o       | 0 ((3) 1) 1)   |
| 4) this  | case it motion   |
| I trak jular   | matrix typu  |
| its determinar   | t wid be the   |
| Product of   | to ilisaling said = matrix   |
|  | V  |
| A= (4 6 0  |  |
| 0 -1 4   | is the state of the  |
| 2 - 2 - 11   |  |
| 0.0 -1.3   | Assessed to the second  |
|  | 212 C  |
| 1A1 = (4)(-1)(-2)  | 2000   |
|  | 1 2 2 1 1 2 A  |
| 1A/ = (4)(1)(-2)<br>- (-4)(-2)<br>- 8  | 1 2 2 1 1 2 B  |
| 1A/ = (4)(1)(1)<br>- (4)(2)<br>8<br>Invariance Pr  | operty   |
| 1A/ = (4)(1)(-t)  - (4)(-1)(-t)  8  Invariance Property of the second se       | och sement de  |
| 1A/ = (4)(1)(1)<br>- (4)(1)<br>8<br>Invariance Produce Produ | its you and  |
| 1A/= (4)(1)(-1)  - (4)(-1)(-1)  8  Tay ariance Pr  3f  mobix etc  polium etc   | its you and a determination is   |
| IAI = (4)(1)(-1)  E 4)(-2  8  Invariance Pr  3f  motrix of  polymon of  added with fi  | e determination  |
| IAI = (4)(1)(-t)  8  Invariance Pr  3f.  motrix. etc.  polymon etc.  added city ft.  You. and  | e determination of the supplier  |
| IAI = (4)(1)(-1)  EY)(-2  8  Invariance Pr  Matrix of coffunn of coffunc of coffunn of c       | e deterministration of the voluments of and the voluments of the constitution of the voluments of the volume |
| IAI = (4)(1)(-t)  8  Invariance Pr  3f.  motrix. etc.  polymon etc.  added city ft.  You. and  | e de lor min de to se de la constante de la co |
| IAI = (4)(1)(-1)  L-4)(-2  8  TAV ariance Pr  8  Matrix of  polymon of  added crith ft  You and company  charminant reproje  | e deterministration of the voluments of and the voluments of the constitution of the voluments of the volume |
| IAI = (4)(1)(-1)  ELY)(-2  8  INV ariance Pr  96  motrix etr  polium et  added city ft  You ard company than  determinant remain   | e deterministration of the voluments of and the voluments of the constitution of the voluments of the volume |
| IAI = (4)(1)(-1)  ELY)(-2  8  Invariance Pr  Matrix of  Column of  added city ft  You and  Cutorminant remain  | e deterministration of deterministration of a deterministration of the condition of the con |
| IAI = (4)(1)(-1)  ELY)(-2  8  TAV ariance Pr  94  motive etr  polium et  added city ft  You ard complete  then  determinant remain   | its you and a determinated is  character of the souther  character of the control |

| 94   | deprets  | operty  |  |
|--|--|---|--|
| ion zero   | constant   |   | thon   |
| determinant  | will   |   | ba   |
| m ultipein   | by   |   | contact.   |
| 9= [4  | 6 47   | , and the second  | and the second s |
| 3  | 2 1  |   |  |
|  | 4 ()   |   |  |
| if 4A =  | (4(u) 6(   | 1   |  |
|  | 3(4) 2(4   | (4) 4(4)  |  |
|  |  | ) 6(4)  |  |
|  |  |   |  |
| 50 /4A/ = 4  | 1/4  | 5 4   |  |
|  | 3 2  |   |  |
|  | 11 4   | 6   | , "  |
| (1/0) //   | 0) (()   |   | · · · · · · · · · · · · · · · · · · ·  |
| -4(8) -6(1)<br>- 32 -102   |  |   |  |
| 30   |  |   | ***************************************  |
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| = -80x4  |  |   |  |
| = - 120  |  |   |  |
| Metricological de la company de la compa   |  | 2   | 4  |
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