0-2 Pag. 1 classmate Solution of Defuminants class 2 (0-2) ULTIMATE MATHEMATICS

$$C_{11} = -1$$
, $C_{12} = 0$ $C_{13} = 0$
 $C_{21} = C_{22} = -C_{23} = -S_{111} \times C_{23} = -S_{111} \times C_{23} = -S_{111} \times C_{23} = C_{23} \times C_{23} = C_{23}$

$$Ov2 \rightarrow (i) A = \left(\begin{array}{ccc} X & O & O \\ O & Y & O \\ O & O & Z \end{array}\right)$$

(D-3)

134: ASAY MITTAL

(ii) 00 yourself

Ons 3(i)
$$A = \begin{bmatrix} 1 & -2 & 1 \\ -2 & 3 & 1 \\ 1 & 1 & 5 \end{bmatrix}$$

$$|A| = |(14) + 2(-11) + 1(-5)$$

 $|A| = |4 - 22 - 5 = -13$

$$C_{11} = 14$$
. $C_{12} = 11$ $C_{13} = -5$ $C_{21} = 11$ $C_{22} = 4$ $C_{23} = -3$

$$C_{31} = -5$$
 $C_{32} = -3$ $C_{33} = -1$

$$AdyA = \begin{bmatrix} 14 & 11 & -5 \\ 11 & 4 & -3 \\ -5 & -3 & -1 \end{bmatrix}$$

$$A^{-1} = -\frac{1}{13} \begin{bmatrix} 14 & 11 & -5 \\ 11 & 4 & -3 \\ -5 & -3 & -1 \end{bmatrix}$$

$$|A \rightarrow A| = |9(-13)| -11(-26)| -5(-13)$$

= -182 + 286 + 65 = |69

Now Gardon of Ady A

$$(21 = +26)$$
 $(21 = -39)$ $(23 = -13)$ $(31 = -65)$

$$A = (A = 3) = \begin{bmatrix} -13 & 26 & -13 \\ 26 & -39 & -13 \\ -13 & -13 & -65 \end{bmatrix}$$

(D.2)

(i) To prose (1-1)-1 = A

(already fed) 1-1/13 -11/13 5/13 (already fed) 5/13 3/13 1/13

Ady(A") = [-1/3 2/13 -1/13 (aluady frd) 4/13 -3/13 -1/13 -5/13

[A-1] = -14 (-4 -9) + 13 (-13 -15) + 5 (-33 + 20)

 $= \frac{-14}{13} \left(\frac{-13}{169} \right) + \frac{11}{13} \left(\frac{-26}{169} \right) + \frac{5}{13} \left(\frac{-13}{169} \right)$

= +14 - 22 - 5 = -13 = -13

(A-1) = 1 Aoj (A-1)

and bred

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BY: A JAY MITTAL

ONY so young

$$S = \begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$$

$$B^{-1} = \left\{ \begin{bmatrix} 3 & 2 & 6 \\ 1 & 1 & 2 \\ 2 & 2 & 5 \end{bmatrix} \right\}$$

$$= \begin{bmatrix} 3 & 2 & 6 \\ 1 & 1 & 2 \\ 2 & 2 & 5 \end{bmatrix} \begin{bmatrix} 3 & -1 & 1 \\ -17 & 6 & -5 \\ 5 & -2 & 2 \end{bmatrix}$$

(D-2) Progr 6) classimate

ULTIMATE MATHEMATICS

$$(-1)^{-1} + (-1)$$

$$(-1) AD - \begin{bmatrix} 3 & 7 \\ 2 & 7 \end{bmatrix} \begin{bmatrix} 6 & 8 \\ 7 & 9 \end{bmatrix} = \begin{bmatrix} 67 & 87 \\ 47 & 61 \end{bmatrix}$$

CON 7 to Do yourself

(0.2)

(0.2)

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(0.5.8 +
$$A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$$
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 $A = \begin{bmatrix} -1 & -$

(2-5) Page Classmate CILTIM ATE MATHEMATICS $\begin{bmatrix} \cos(2x) & -\sin(2x) \\ \sin(2x) & \cos(2x) \end{bmatrix}$ = RMI PROVED $ON 10 + A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \end{bmatrix}$ (i) Do young snow 12- 4A-5I-0 (i) we have A2-4A-5I=0 pre-muzhpy by A-1 9 A-A2- YA-A - SA-II- O = (A-1A)A - 4A-1A - 5A-1 = 0 7 IA - 4I -5A-1=0 - A - 4I - 5A-1 =0 A 5A-1 = A-4I ONIN - there as a "collection" in 1ts It Should be x= 3x-7 (1) Topmy A2-3A-7I=0 Do Same as ON NO: 10