ABHIJIT SINHA (4X4 matrix Operations)

ADDITION :

2	١	5	7		10217	3	1	7 8	}	
6	-2	0	3	+	-2 1 5 2 =	4	-1	5 5		
3	2	-4	1		3 -2 6 4	6	0	2 4	5	
9	7	2	3		2 0 1-2	11	7	3	1	
9	7	2	3		2 0 1 - 2	6				0 2 5 7 3 1

SUBTRACTION :

36
3 - 5 1
4 -10 -3
7 1 5

MULTIPLICATION :

$$= (2\times1) + (1\times-2) + (5\times3) + (7\times2) \qquad (2\times0) + (1\times1) + (5\times-2) + (7\times0)$$

$$(6\times1) + (-2\times-2) + (0\times3) + (3\times2) \qquad (6\times0) + (-2\times1) + (0\times-2) + (3\times0)$$

$$(3\times1) + (2\times-2) + (-4\times3) + (1\times2) \qquad (3\times0) + (2\times1) + (-4\times-2) + (1\times0)$$

$$(9\times1) + (7\times-2) + (2\times3) + (3\times2) \qquad (9\times0) + (7\times1) + (2\times-2) + (3\times0)$$

ABHIJIT SINHA

[Matrix 3+3 X Vector 3]

$$\begin{bmatrix}
2 & 1 & 3 & 1 & 1 \\
-1 & 7 & 2 & 1 & -2 \\
8 & -2 & 4 & 4
\end{bmatrix}$$

$$= (2 \times 1) + (1 \times -2) + (3 \times 4) + (1 \times -2) + (2 \times 4) + (2 \times$$