ZATISH KUMAR

Exercise 1

$$A = \begin{pmatrix} 1 & 2 & 4 \\ 3 & 5 & c \\ a & a & b \end{pmatrix}$$

Multiply 4000 1 by -3 and add 400 2
$$\begin{pmatrix}
1 & 2 & 4 \\
0 & -1 & C-12
\end{pmatrix}$$

Multiply now 1 by -a and add now 3

1 2 4
0 -1 C-12
0 0 8arb-ac

Multiply 4000 1 by -2 and add 4000 2

10 3 -2

0 1 -2 3

0 2 2 0

0 4 -1 0

Multiply row 3 by -2 and add row 4

Multiply you 2 by -2 and add now 3

$$\begin{pmatrix}
1 & 0 & 3 & -2 \\
0 & 1 & -2 & 3 \\
0 & 0 & 6 & -6 \\
0 & 0 & -5 & 0
\end{pmatrix}$$

Multiply row 3 by 5 and add row 4

det B = 1.1.6.-5 = -30 Ans