





$$|A| = \begin{vmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{vmatrix} \quad R_3 \to R_3 - R_1$$

$$|A| = \begin{vmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 0 & 0 & 1 \end{vmatrix} \Rightarrow |A| = 1$$

$$A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix} \begin{cases} C_{11} = 7; & C_{12} = -1; & C_{13} = -1; & C_{21} = -3; & C_{22} = 1; & C_{23} = 0; \\ C_{31} = -3; & C_{32} = 0; & C_{33} = 1 \end{cases}$$

$$C = \begin{pmatrix} 7 & -1 & -1 \\ -3 & 1 & 0 \\ -3 & 0 & 1 \end{pmatrix}; \quad adj(A) = \begin{pmatrix} 7 & -3 & -3 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{pmatrix}$$