

Q.1. Let

$$M = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

$$EM = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

$$= \begin{pmatrix} c & d \\ a & b \end{pmatrix}$$