$$|\mathbf{A} + \epsilon \mathbf{M}| = \begin{vmatrix} \epsilon & 0 \\ 2 & 1 + \epsilon M_{22} & \epsilon M_{32} & \epsilon M_{42} & \epsilon M_{52} \\ \epsilon & 0 \\ 3 & \epsilon M_{23} & 1 + \epsilon M_{33} & \epsilon M_{43} & \epsilon M_{53} \end{vmatrix}$$

$$|\epsilon + \epsilon \mathbf{M}| = \begin{vmatrix} \epsilon & 0 \\ 4 & \epsilon M_{24} & \epsilon M_{34} & 1 + \epsilon M_{44} & \epsilon M_{54} \\ \epsilon & 0 \\ 5 & \epsilon M_{25} & \epsilon M_{35} & \epsilon M_{45} & 1 + \epsilon M_{55} \end{vmatrix}$$

$$= (1 + \epsilon M_{11}) C_{11}$$