Let
$$M = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \end{bmatrix}$$
 $M_{R} = I - M_{R} e^{T}_{R} = I - V_{a_{RK}} \begin{bmatrix} k+j_{K} \\ k+j_{K} \end{bmatrix} \begin{bmatrix} 0 & 0 \\ 2 \\ -2 \end{bmatrix} = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$
 $M_{1} M_{1} M_{2} M_{2} = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & 2 \end{bmatrix} = \begin{bmatrix} 2 \\ 4 \\ 0 \end{bmatrix}$
 $M_{2} M_{1} M_{2} M_{3} M_{4} M_{4}$