

$$M = \begin{pmatrix} \boxed{\begin{matrix} 1 & 2 & 3 \\ 6 & 7 & 8 \\ 11 & 12 & 13 \end{matrix}} & 4 & 5 \\ 9 & 10 & 11 \\ 14 & 15 & 16 \\ 19 & 20 & 21 \end{pmatrix} \xrightarrow{\text{Transpose}} M^T = \begin{pmatrix} \boxed{\begin{matrix} 1 & 6 & 11 \\ 2 & 7 & 12 \\ 3 & 8 & 13 \end{matrix}} & 4 & 5 \\ 9 & 10 & 11 \\ 14 & 15 & 16 \\ 19 & 20 & 21 \end{pmatrix}$$