

$$\begin{array}{c}
 \boxed{\begin{array}{c} x_1^T \\ x_2^T \\ \vdots \\ x_n^T \end{array}} \\
 X
 \end{array}
 - \boxed{\mu^T} \rightarrow
 \begin{array}{c}
 \boxed{\begin{array}{c} x_1^T \\ x_2^T \\ \vdots \\ x_n^T \end{array}} \\
 X
 \end{array}
 - \begin{array}{c} \boxed{\mu^T} \\ \boxed{\mu^T} \\ \vdots \\ \boxed{\mu^T} \end{array} \rightarrow
 \begin{array}{c}
 \boxed{\begin{array}{c} x_1^T - \mu^T \\ x_2^T - \mu^T \\ \vdots \\ x_n^T - \mu^T \end{array}} \\
 X - \mu^T
 \end{array}$$