

$$\begin{array}{|c|} \hline \star \\ \hline \diamond \\ \hline \end{array}
 \times
 \begin{array}{|c|} \hline * \\ \hline \dagger \\ \hline \end{array}
 =
 \begin{array}{|cc|} \hline \langle \star, * \rangle & \langle \star, \dagger \rangle \\ \hline \langle \diamond, \star \rangle & \langle \diamond, \dagger \rangle \\ \hline \end{array}$$