$$\begin{pmatrix}
a_1^1 b_1^1 + a_1^2 b_2^1 \\
(a_1^1 b_1^1 + a_2^2 b_2^1)
\end{pmatrix} \quad \begin{pmatrix}
a_1^1 b_1^2 + a_1^2 b_2^2 \\
(a_2^1 b_1^1 + a_2^2 b_2^1)
\end{pmatrix} \quad \begin{pmatrix}
a_1^1 b_1^2 + a_2^2 b_2^2 \\
(a_2^1 b_1^2 + a_2^2 b_2^2)
\end{pmatrix}$$

 $A \cdot B =$