$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \begin{bmatrix} 5 & 6 \\ 4 & 8 \end{bmatrix} \begin{bmatrix} 9 & 22 \\ 43 & 50 \end{bmatrix}$$

 $r[O]O] = a[O][O] \times b[O][O] + a[O][I] \times b[I][O]$   $r[O]O] = a[O][O] \times b[O][I] + a[O][I] \times b[I][I]$   $r[O]O] = a[O][O] \times b[O][O] + a[O][I] \times b[I][I]$   $r[O][O] = a[O][O] \times b[O][O] + a[I][I] \times b[I][O]$   $r[O][O] = a[O][O] \times b[O][O] + a[I][I] \times b[I][I]$