

$$\begin{aligned}
 (\textcolor{green}{\mu}_x \circ \textcolor{blue}{; } M)(\textcolor{orange}{[}\textcolor{magenta}{[}a, b\textcolor{magenta}{]}, \textcolor{orange}{[}c, d\textcolor{magenta}{]}\textcolor{magenta}{]}) &= M(f)(\textcolor{orange}{[}a, d\textcolor{magenta}{]}) \\
 &= \textcolor{orange}{[}\textcolor{blue}{f}(a), \textcolor{blue}{f}(d)\textcolor{magenta}{]}
 \end{aligned}$$