

$$M \times M \times M \xrightarrow{id_M \times \mu} M \times M$$

$$\begin{array}{c} \mu \times id_M \downarrow \\ M \times M \end{array}$$

$$M \times M \xrightarrow{\mu} M$$

$$M \xrightarrow{\eta \times id_M} M \times M \xleftarrow{id_M \times \eta} M$$

$$\begin{array}{ccc} & & \\ id_M \swarrow & & \searrow id_M \\ & \mu \downarrow & \\ & M & \end{array}$$