

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

$$\downarrow \mu \times id_M \qquad \qquad \qquad \downarrow \mu$$

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

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

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

$$M$$