$$p \circ m_2\big([\psi, -] \otimes \theta^*\big) \circ \big(\iota \otimes \theta \partial_x \circ m_2([\psi, -] \otimes \theta^*)(\iota \otimes \theta x[\psi, -]\iota)\big)\big(\psi^* \otimes \psi^* \otimes \psi^*\big)$$