Let $\mathcal{A}$ be an A_∞ category and

$$(M_n,\delta_n) \xleftarrow{\varphi_{n-1}} \cdots\cdots \xleftarrow{\varphi_1} (M_1,\delta_1)$$

a sequence of morphisms in $\mathrm{Tw}\,\mathcal{A}$

Show that if $\deg \varphi_k = 1$ and $\mu_{\mathrm{Tw}}(\varphi_k) = 0$

then
$$\mu_{\mathrm{Tw}}(\varphi_{n-1}, \dots, \varphi_k, \dots, \varphi_1) = \pm$$
$$\mu_{\mathrm{Tw}}(\varphi_{n-1}, \dots, \tilde{\varphi}_{k+1}, \tilde{\varphi}_{k-1}, \dots, \varphi_1)$$

where

$$\tilde{\varphi}_{k+1} : \mathrm{Cone}(\varphi_k) \to (M_{k+2}, \delta_{k+1}) = \left[\begin{array}{c|c} \varphi_{k+1} & \\ \hline & \end{array}\right]$$

$$\tilde{\varphi}_{k-1} : (M_{k-1}, \delta_{k-1}) \to \mathrm{Cone}(\varphi_k) = \left[\begin{array}{c|c} & \\ \hline & \varphi_{k-1} \end{array}\right]$$

$$\mathrm{Cone}(\varphi_k) = \left(M_k \oplus M_{k+1}, \left(\begin{array}{c|c} \delta & \delta \\ \hline \varphi_k & \delta \end{array}\right)\right)$$