$$\omega_{\varphi}(\tau) = \varphi_{\sigma_{1}} \left( \omega(\sigma_{1}) v_{\sigma_{1}/\tau} \right) + \varphi_{\sigma_{2}} \left( \omega(\sigma_{2}) v_{\sigma_{2}/\tau} \right) + \varphi_{\sigma_{3}} \left( \omega(\sigma_{3}) v_{\sigma_{3}/\tau} \right)$$

$$- \varphi_{\tau} \left( \omega(\sigma_{1}) v_{\sigma_{1}/\tau} + \omega(\sigma_{2}) v_{\sigma_{2}/\tau} + \omega(\sigma_{3}) v_{\sigma_{3}/\tau} \right)$$

$$= \varphi_{\sigma_{3}} \left( \omega(\sigma_{3}) v_{\sigma_{3}/\tau} \right)$$

$$= \varphi_{\sigma_{3}} \left( 1(e_{x} + e_{y}) \right) = 1$$