

$${}^w g = w \times \frac{a}{\bar{b}} \Big| \frac{b}{\bar{a}} = \frac{a + w\bar{b}}{-1} \frac{b + w\bar{a}}{-1}$$

$${}^w \underline{g} = \frac{a + w\bar{b}}{-1} \quad {}^w \underline{\dagger} = \frac{\bar{a} + \bar{b}w}{-1}$$

$${}^w \underline{g}^{\dagger} = \frac{\bar{a} + \bar{b}w}{-1} \quad {}^w \underline{a} + \bar{b}w$$