

$$4\left(-g^{a8}(2\bar{q}^2+a^2)\bar{g}^{bd}+\bar{g}^{ad}(2\bar{q}^2+a^2)\bar{g}^{b8}-2\bar{q}^b\bar{q}^8\right)+a^2\bar{g}^{d8}\bar{g}^{ab}-2\bar{q}^a\bar{q}^b\bar{g}^{d8}-2\bar{q}^a\bar{g}^{b8}\bar{q}^d-2\bar{q}^d\bar{q}^8\bar{g}^{ab}+2\bar{q}^2\bar{g}^{d8}\bar{g}^{ab})$$