$$|\sigma_{\lambda-1}^{-1}(V(\mathcal{K}^\ell)) \setminus (V(\mathcal{P}_a^\ell) \cup V(\mathcal{P}_b^\ell))| = 1 \text{ and } |\sigma_\lambda^{-1}(V(\mathcal{K}^\ell)) \setminus (V(\mathcal{P}_a^\ell) \cup V(\mathcal{P}_b^\ell))| = 2,$$