$$D\left[\frac{1}{\sqrt{(xk-xj)^{2}+(zk[z]-zj[z])^{2}}}-\frac{1}{\sqrt{(xk-xj)^{2}+(zk[z]+zj[z])^{2}}},\{z,1\}\right]/.$$

$$\{zj'[z] \to 1, zk'[z] \to 1\}$$

$$Out[*]=\frac{2(zj[z]+zk[z])}{\left((-xj+xk)^{2}+(zj[z]+zk[z])^{2}\right)^{3/2}}$$

$$In[*]:=D\left[\frac{1}{\sqrt{(xk-xj)^{2}+(zk[z]-zj[z])^{2}}}-\frac{1}{\sqrt{(xk-xj)^{2}+(zk[z]+zj[z])^{2}}},\{z,2\}\right]/.$$

$$\{zj'[z] \to 1, zk'[z] \to 1, zj''[z] \to 0, zk''[z] \to 0\}$$

$$Out[*]:=-\frac{1}{\left((-xj+xk)^{2}+(zj[z]+zk[z])^{2}\right)^{5/2}}+\frac{4}{\left((-xj+xk)^{2}+(zj[z]+zk[z])^{2}\right)^{3/2}}$$