

$$l = (\|b - c\|_2^2, \|a - c\|_2^2, \|a - b\|_2^2)$$

$$ba = (l_1\,(l_2+l_3-l_1)\,,l_2\,(l_3+l_1-l_2)\,,l_3\,(l_1+l_2-l_3))$$

$$cc = \frac{1}{ba_1+ba_2+ba_3}\,(ba_1a+ba_2b+ba_3c)$$

where

$$a \in \mathbb{R}^3$$

$$b \in \mathbb{R}^3$$

$$c \in \mathbb{R}^3$$