

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

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

$$cc = \frac{1}{ba_1 + ba_2 + ba_3} (ba_1 a + ba_2 b + ba_3 c)$$

where

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

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

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