$$\begin{split} l &= \left(\|b-c\|_{2}^{2}, \|a-c\|_{2}^{2}, \|a-b\|_{2}^{2}\right) \\ ba &= \left(l_{1} \left(l_{2} + l_{3} - l_{1}\right), l_{2} \left(l_{3} + l_{1} - l_{2}\right), l_{3} \left(l_{1} + l_{2} - l_{3}\right)\right) \\ cc &= \frac{1}{ba_{1} + ba_{2} + ba_{3}} \left(ba_{1}a + ba_{2}b + ba_{3}c\right) \end{split}$$

where

- $a \in \mathbb{R}^3$
- $b \in \mathbb{R}^3$
- $c \in \mathbb{R}^3$