$$
\begin{aligned}
l &= \left(\|b-c\|_2^2, \|a-c\|_2^2, \|a-b\|_2^2 \right) \\
ba &= \left(l_1 \left(l_2 + l_3 - l_1 \right), l_2 \left(l_3 + l_1 - l_2 \right), l_3 \left(l_1 + l_2 - l_3 \right) \right) \\
cc &= \frac{1}{ba_1 + ba_2 + ba_3} \left(ba_1 a + ba_2 b + ba_3 c \right)
\end{aligned}
$$

where

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