

$$\begin{array}{c} 1/a - 1/(b+c) \\ 1/a + 1/(b+c) \end{array} * \left( \begin{array}{c} 1 \\ 1 \end{array} + \begin{array}{c} b^2+c^2-a^2 \\ 2bc \end{array} \right) : \begin{array}{c} a-b-c \\ abc \end{array} \begin{array}{c} (b+c)/(a(b+c)) - a/(a(b+c)) \\ (b+c)/(a(b+c)) + a/(a(b+c)) \end{array} * \begin{array}{c} b^2+c^2-a^2+2bc \\ 2bc \end{array} : \begin{array}{c} a-b-c \\ abc \end{array}$$

$$\begin{array}{c} (b+c-a)/(a(b+c)) \\ (b+c+a)/(a(b+c)) \end{array} * \begin{array}{c} b^2+c^2-a^2+2bc \\ 2bc \end{array} * \begin{array}{c} abc \\ a-b-c \end{array} \begin{array}{c} b+c-a \\ b+c+a \end{array} * \begin{array}{c} b^2+c^2-a^2+2bc \\ 2bc \end{array} * \begin{array}{c} abc \\ a-b-c \end{array}$$

$\frac{b+c}{a} = \frac{a}{b} : \frac{c}{b} = \frac{a}{c} \cdot \frac{b}{b} = \frac{a}{c}$

$$\begin{array}{c} (b^2+c^2-a^2+2bc)(b+c-a)(abc) \\ (2bc)(b+c+a)(a-b-c) \end{array}$$

$$\begin{array}{c} (b^2+c^2-a^2+2bc)(-1)(-b-c+a)(abc) \\ (2bc)(b+c+a)(a-b-c) \end{array}$$

$$\begin{array}{c} (b^2+c^2-a^2+2bc)(-a) \\ 2(b+c+a) \end{array}$$

$$\begin{array}{c} ((b+c)^2-a^2)(-a) \\ 2(b+c+a) \end{array}$$

$$\begin{array}{c} (b+c+a)(b+c-a)(-a) \\ 2(b+c+a) \end{array}$$

$$\begin{array}{c} (b+c-a)(-a) \\ 2 \end{array}$$

$$\begin{array}{c} (a-b-c)a \\ 2 \end{array}$$