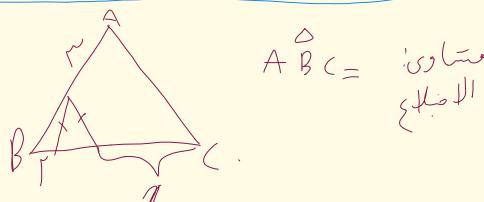


$$\begin{aligned}
 \sqrt[n]{\sqrt[r]{\sqrt[\ell]{r}}} &= \sqrt[n]{\sqrt[r]{\sqrt[\ell]{r}}} = \sqrt[n]{\sqrt[\ell]{r}} = \sqrt[n]{r} \\
 \sqrt[n]{\sqrt[\ell]{r \times r^{\frac{1}{n}}}} - \sqrt[n]{r \times r^{\frac{1}{n}}} &= \sqrt[n]{\sqrt[\ell]{r \times r^{\frac{1}{n}} \times r^{\frac{1}{n}} \times r^{\frac{1}{n}}}} - \sqrt[n]{\sqrt[\ell]{r \times r^{\frac{1}{n}} \times r^{\frac{1}{n}} \times r^{\frac{1}{n}}}} \\
 &= \sqrt[n]{\sqrt[\ell]{r \times r^{\frac{1}{n}}}} - \sqrt[n]{\sqrt[\ell]{r \times r^{\frac{1}{n}}}} \\
 \sqrt[n]{\sqrt[r]{r}} - \sqrt[n]{\sqrt[r]{r}} &= \cancel{\sqrt[n]{\sqrt[r]{r}}} - \cancel{\sqrt[n]{\sqrt[r]{r}}} = 0 \\
 \sqrt[n]{\sqrt[r]{r \times \sqrt[\ell]{r^{\frac{1}{n}} \times \sqrt[\ell]{r}}}} &= \sqrt[n]{\sqrt[r]{r \times \sqrt[\ell]{r}}} \times \sqrt[n]{\sqrt[\ell]{r}} = \sqrt[n]{\sqrt[r]{r}} = \sqrt[n]{r} \\
 &= \sqrt[n]{\sqrt[\ell]{r}} = \sqrt[\ell]{r} \\
 \sqrt[n]{\frac{1^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + 1^{\frac{n}{n}}}{0^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + n^{\frac{n}{n}}}} &= \sqrt[n]{\frac{1^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + 1^{\frac{n}{n}}}{0^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + n^{\frac{n}{n}}}} = \sqrt[n]{\frac{1^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + 1^{\frac{n}{n}}}{0^{\frac{n}{n}} + 1^{\frac{n}{n}} + \dots + n^{\frac{n}{n}}}} = \sqrt[n]{0^{\frac{n}{n}}} \\
 (-r\sqrt{r})^{\frac{1}{n}} &\quad \text{---} \quad \left( \sqrt{(r-\sqrt{r})^{\frac{1}{n}}} \times \sqrt[r]{r-\sqrt{r}} \times \sqrt[r]{(r-\sqrt{r})^{\frac{1}{n}}} \right) \\
 &\quad \text{---} \quad \left( -\sqrt{(r-\sqrt{r})^{\frac{1}{n}}} \times \sqrt[r]{(r-\sqrt{r})^{\frac{1}{n}}} \times \sqrt[r]{(r-\sqrt{r})^{\frac{1}{n}}} \right) \\
 \sqrt[r]{\frac{a^{\frac{1}{r}}}{b^{\frac{1}{r}}}} \times \sqrt[r]{\frac{b^{\frac{1}{r}}}{a^{\frac{1}{r}}}} \times \sqrt[r]{ab} &= \left\{ \begin{array}{l} -\sqrt[r]{(r-\sqrt{r})^{\frac{1}{n}}} \\ = -(r-\sqrt{r}) = -r+\sqrt{r} \end{array} \right. \\
 \sqrt[r]{\frac{a^{\frac{1}{r}}}{b^{\frac{1}{r}}}} \times \frac{b}{a} \times ab &\Rightarrow \sqrt[r]{\frac{1}{b} \times \frac{1}{a} \times ab} = \sqrt[r]{ab} \\
 &= \sqrt[r]{ab}
 \end{aligned}$$

$$\begin{aligned}
 \sqrt{-a} &\Rightarrow a^{\frac{1}{2}} \\
 \sqrt{-a} + \frac{\sqrt{a} + \sqrt{a}}{\sqrt{a} - \sqrt{a}} &= \sqrt{-a} + \frac{a + \sqrt{a}}{|a| - \sqrt{a}} \\
 &= \sqrt{-a} + \frac{a + \sqrt{a}}{-a - \sqrt{a}} = \sqrt{a} + \frac{\sqrt{a}}{-\sqrt{a}} \\
 &= \sqrt{a} - 1 \\
 &= -1 + \sqrt{a} \\
 \sqrt{\varepsilon} - \sqrt{\delta} + \sqrt{\varepsilon - 1} &= \frac{\sqrt{\varepsilon - \delta} - \sqrt{\delta} + \sqrt{\varepsilon - 1}}{\sqrt{\varepsilon - 1}} = \frac{\sqrt{\delta}(\sqrt{\varepsilon - 1}) + (\sqrt{\varepsilon - 1})}{\sqrt{\varepsilon - 1}} \\
 &= \frac{(\sqrt{\delta} + 1)(\sqrt{\varepsilon - 1})}{\sqrt{\varepsilon - 1}} = \sqrt{\delta} + 1 \quad \text{DB}
 \end{aligned}$$



$A B C =$  مساحت المثلث

