

$$\begin{aligned} & \rightarrow (\sqrt{a-r} + \sqrt{a+r})^2 \\ & ((a^2+b^2)^r - (rab)^r)^r = \sqrt{a-r} + \sqrt{a+r} - \sqrt{a-r} = (\sqrt{a-r} - \sqrt{a+r})^r = + (r-a) = \frac{r}{r+1} - 1\sqrt{a} = \frac{1}{r}(\sqrt{a-r}) \\ & \rightarrow 14(r-a) = + (r-a) \rightarrow \boxed{t=14} \end{aligned}$$

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$$C_{11} = \left(\left(a + \frac{1}{a} \right)^r - r \right)^r = \left(a^r + \frac{1}{a^r} \right)^r = a^r + \frac{1}{a^r} + r$$

$$C_{12} = \frac{1}{\sqrt{a-r}} \times \frac{\sqrt{a+r}}{\sqrt{a-r}} = \frac{\sqrt{a+r}}{\sqrt{a-r}} = \sqrt{a+r}$$

$$a^r + \frac{1}{a^r} + r = \sqrt{a-r} + \sqrt{a+r} + r = 14 \rightarrow r^t = \frac{14}{r} \rightarrow \boxed{t=r}$$

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$$A = r^{\frac{r}{a}} \times r^{\frac{r}{b}} \times r^{\frac{r}{c}} = r^r = r$$

$$(rA)^{-\frac{1}{r}} = (r \times r)^{-\frac{1}{r}} = (r^2)^{-\frac{1}{r}} = (r^r)^{-\frac{1}{r}} = \boxed{\frac{1}{r}}$$

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$$\begin{aligned} \sqrt{a} &= r \sqrt{a} \frac{1}{r} \rightarrow a^{\frac{1}{r}} = r^r \times a^{\frac{1}{r}} \rightarrow r = \frac{a^{\frac{1}{r}}}{a^{\frac{r}{r}}} = r^r = a^{\frac{1}{r}} \rightarrow r = a^{\frac{1}{r}} \rightarrow a = \frac{1}{r^r} \\ &\rightarrow \frac{1}{a} = r^r \rightarrow \frac{1}{a} = r \rightarrow r\sqrt{a} = r \rightarrow r(\sqrt{a}-1) \times \frac{1-\sqrt{a}}{1-\sqrt{a}} = \frac{r(\sqrt{a}-1-r+\sqrt{a})}{-r} \\ &\Rightarrow \boxed{-r(\sqrt{a}+1)} \end{aligned}$$

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$$\begin{aligned} & \sqrt{\frac{x+a}{a}} + \sqrt{\frac{x-r}{b}} = r = ? \quad \sqrt{\frac{x+a}{a}} - \sqrt{\frac{x-r}{b}} = r \\ & \begin{cases} A+B=r=? \\ A-B=r=? \end{cases} \quad A-B=r \rightarrow \frac{A}{1} = \frac{B+r}{1} \rightarrow A^2 = B^2 + r^2 + 2rB \\ & \text{① } B+r+B-r = rB = ? \quad \text{② } r \times \frac{a}{r} = \boxed{\frac{a}{r}} \\ & \begin{cases} rB = A^2 - B^2 - r^2 \\ rB = x+a-x+r-r \\ \therefore B = \frac{a}{r} \text{ ③} \end{cases} \end{aligned}$$

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