

$$(a^2 + b^2 - rab)^r (a^2 + b^2 + rab)^r = t(r - \sqrt{r})$$

$$\frac{(a^2 + b^2)^r - (rab)^r}{(a^2 + b^2)^r} \Rightarrow (a^2 + b^2)^r \rightarrow (\sqrt{a-r} + \sqrt{a+r})^r = \frac{\sqrt{a-r} + \sqrt{a+r} + 2\sqrt{a-r}\sqrt{a+r}}{\sqrt{a-r}\sqrt{a+r}}$$

$$ab = \sqrt{(a-r)(a+r)} = \left(\frac{r}{2}\right)$$

$$\rightarrow (r(\sqrt{a+r}) - \frac{r}{2})^r = \frac{r}{2}(\sqrt{a-r})^r \rightarrow \frac{r}{2}(4+r-\sqrt{r}) = \frac{r}{2}(1-\sqrt{r}) \rightarrow r^2 - 14\sqrt{r} = t(r - \sqrt{r})$$

$$\rightarrow \frac{r}{2} \rightarrow \boxed{t=14}$$

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

$$a \Rightarrow \sqrt{r-\sqrt{r}} = \sqrt{r-\sqrt{r}}$$

$$(\sqrt{r-\sqrt{r}})^r + \frac{1}{(\sqrt{r-\sqrt{r}})^r} = \left(r - \sqrt{r} + \frac{1}{r - \sqrt{r}}\right)^r = \left(r - \sqrt{r} + r + \sqrt{r}\right)^r = (2r)^r = 14 \rightarrow r^2$$

$$\rightarrow \frac{r}{2} \rightarrow \boxed{t=4}$$

$$\sqrt[r]{x^r \cdot r^r} \rightarrow \sqrt[r]{x^r} \rightarrow \sqrt[r]{r^r} \rightarrow \left(\frac{1}{r}\right)^{-\frac{r}{r}} \rightarrow \sqrt[r]{\left(\frac{1}{r}\right)^{-r}} \rightarrow \sqrt[r]{\frac{1}{r^r}}$$

$$A = \sqrt[r]{x^r \cdot r^r} \rightarrow \sqrt[r]{r^r} \rightarrow \boxed{r^r = A} \rightarrow (rA)^{-\frac{1}{r}} \rightarrow (1)^{-\frac{1}{r}} \rightarrow \left(\frac{1}{r}\right)$$

$$a^{\frac{1}{r}} = r \cdot v \quad a^{\frac{1}{r}} \rightarrow a^{-r} = r \cdot v \rightarrow a^{-1} = \sqrt{r \cdot v} \rightarrow \frac{1}{a} = \sqrt{r \cdot v} = r \cdot \sqrt{r}$$

$$\frac{r\sqrt{r}-r}{\sqrt{r}+1} = \frac{r(\sqrt{r}-1)}{\sqrt{r}+1} \times \frac{\sqrt{r}-1}{\sqrt{r}-1} = \frac{r}{r} \left(\frac{r+1-r\sqrt{r}}{9} \right)$$

$$\rightarrow \frac{r}{r} \times r (r - \sqrt{r})$$

$$\frac{\sqrt{n+a} - \sqrt{n-\varepsilon}}{m} = r \quad / \quad \frac{\sqrt{n+a} + \sqrt{n-\varepsilon}}{n} = r \quad ? \rightarrow \frac{N+r}{m} + \frac{N-r}{n} = ? \rightarrow \frac{N}{m} + \frac{N}{n} - r = ?$$

$$m - n = r \rightarrow \boxed{m = n + r} \rightarrow \frac{1}{r} \times \frac{r}{r} = \frac{1}{r} \times \frac{r}{r} \rightarrow a = \varepsilon n \rightarrow \boxed{N = \frac{a}{\varepsilon}}$$

$$r \times \frac{a}{\varepsilon} = \left(\frac{a}{r}\right)$$