

$$\frac{\sqrt{1+\sqrt{r}} + \sqrt{\sqrt{r}-1}}{\sqrt{\sqrt{r}-\sqrt{r}}} - r = \frac{(\sqrt{1+\sqrt{r}})^r = 1+\sqrt{r}}{(\sqrt{1-\sqrt{r}})^r = 1-\sqrt{r}} \quad \text{①}$$

$$\frac{\sqrt{1+\sqrt{r}} + \sqrt{1-\sqrt{r}}}{\sqrt{\sqrt{r}-\sqrt{r}}} - r = \frac{1+\sqrt{r} + 1-\sqrt{r}}{\sqrt{\sqrt{r}-\sqrt{r}}} = \frac{r}{\sqrt{\sqrt{r}-\sqrt{r}}} - r$$

$$\sqrt[r]{r^n} \times \sqrt[r]{1/r} \times \sqrt[r]{r/r} = \sqrt[r]{r^n/r} = \sqrt[r]{r^{n-1}} \rightarrow \sqrt[r]{r^n}$$

$$\sqrt[r]{r^n} \times \sqrt[r]{r^n/r} \times \sqrt[r]{r/r}$$

$$\frac{r^n}{r} \times r^n \times r \frac{1}{r} \times r \frac{1}{r} = r^n \times r \frac{r^n}{r} + \frac{1}{r} + \frac{1}{r} = \frac{1+r+r^n}{r} = \frac{\omega}{r} = \frac{r\omega}{r}$$

$$\frac{r^n + r^{n+1} + r^{n+2} + r^{n+3} + r^{n+4} + r^{n+5}}{r^{n-2} + r^{n-1} + r^n + r^{n+1} + r^{n+2} + r^{n+3}} = \Delta r$$

$$r^n = n, 1, \omega \quad \text{②}$$

$$\frac{r^n (1 + 1 + r + 1 + r + 1 + r + 1 + 1 + r + r^n)}{r^n (1 - \frac{1}{r} + 1 - \frac{1}{r} + r + r + r + r + r + 1)} = \Delta r$$

$$\frac{r^n (1 - \frac{1}{r} + 1 - \frac{1}{r} + r + r + r + r + r + 1)}{r^n (1 - \frac{1}{r} + 1 - \frac{1}{r} + r + r + r + r + r + 1)} = \Delta r$$

$$\frac{r^n (r \omega)}{r^n (r + 1 + \frac{\omega}{r})} = \frac{r^n (r \omega)}{r^n (\frac{r^2 + r + \omega}{r})} = \Delta r$$

$$\frac{1}{1} + \frac{\omega}{r} = \frac{r + \omega}{r} = \frac{r + \omega}{r}$$

$$b = \sqrt[r]{\sqrt{5}+r} \quad a = \sqrt[r]{\sqrt{5}-r} \quad (4)$$

$$(a^r + b^r - rab)^r (a^r + b^r + rab)^r = t(r - \sqrt{r}) \quad r \neq 1, \text{ مقدار}$$

$$\left(\sqrt[r]{\sqrt{5}-r}\right)^r + \left(\sqrt[r]{\sqrt{5}+r}\right)^r - r \left(\sqrt[r]{\sqrt{5}+r} \times \sqrt[r]{\sqrt{5}-r}\right)^r, \left(\sqrt[r]{\sqrt{5}+r}\right)^r - \left(\sqrt[r]{\sqrt{5}-r}\right)^r =$$

$$\left(\sqrt[r]{\sqrt{5}-r} + \sqrt[r]{\sqrt{5}+r} - r \sqrt[r]{\sqrt{5}+r} - r \sqrt[r]{\sqrt{5}-r}\right)^r \quad \sqrt[r]{\sqrt{5}+r} - \sqrt[r]{\sqrt{5}-r}$$

$$+\sqrt{5}-r + \sqrt{5}+r - r\sqrt{5}-r - r\sqrt{5}+r =$$

$$r\sqrt{5} - r\sqrt{5} = -r\sqrt{5}$$

$$(a^r + b^r + rab)^r = \left(\sqrt[r]{\sqrt{5}-r} + \sqrt[r]{\sqrt{5}+r} + r \left(\sqrt[r]{\sqrt{5}+r} \times \sqrt[r]{\sqrt{5}-r}\right)^r\right)^r$$

$$\sqrt{5}-r + \sqrt{5}+r + r\sqrt{5} + r + r\sqrt{5}-r = r\sqrt{5} + r\sqrt{5} = 2r\sqrt{5}$$

$$2r\sqrt{5} - r\sqrt{5} = r\sqrt{5} = t \left(\frac{r\sqrt{5}}{r}\right) = r\sqrt{5}$$

$$r\sqrt{5} = r \times r, r = 9, 9$$

$$\text{or } r \times t = 9, 9 \Rightarrow t = 1$$

$$a = \sqrt[r]{r - r\sqrt{r}} \quad (5)$$

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

$$\frac{r}{r} \times \sqrt{r} = 0, 1$$

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

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

$$A = \sqrt[r]{r \sqrt[r]{1/r}} \left(\frac{1}{r}\right)^{-\frac{r}{r}} / (rA)^{-\frac{1}{r}} \quad (1)$$

$$\sqrt[r]{\sqrt[r]{r^r} \times r} = \sqrt[r]{r^r \times r} = r^{\frac{r}{r}} = \sqrt[r]{r} = r$$

$$r \times \left(\frac{1}{r}\right)^{-\frac{r}{r}} = r \sqrt[r]{r^r}$$

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

$$r \times r \times \sqrt[r]{r^r} = (r \sqrt[r]{r^r})^{-\frac{1}{r}} \left(\frac{1}{r \sqrt[r]{r^r}}\right)^{\frac{1}{r}}$$

$$\sqrt{n+a} + \sqrt{n-c} - r = ?$$

$$\underbrace{\sqrt{n+a}}_u - \underbrace{\sqrt{n-c}}_y = r \quad (10)$$

$$u - y = r$$

$$u + y - r = ?$$

$$u - r = y?$$

$$u = r + ?$$

$$u = r + \frac{r}{r}$$