

$$a = \sqrt[r]{\sqrt{4} - r}$$

$$t = 14$$

$$b = \sqrt[r]{\sqrt{4} + r}$$

$$(a^r + b^r - rab)^r (a^r + b^r + rab)^r = t(r - \sqrt{r}) \quad (r\sqrt{4} - r\sqrt{r})^r = \frac{r^2 + 1 - 1\sqrt{12}}{r^2} = \frac{r(r - \sqrt{r})}{r^2} = 14(r - \sqrt{r})$$

$$((a-b)^r)^r ((a+b)^r)^r$$

$$[(a-b)(a+b)]^{\frac{2}{r}} = (a^r - b^r)^{\frac{2}{r}} = (\sqrt{4-r} - \sqrt{4+r})^{\frac{2}{r}} = (\sqrt{4-r} - \sqrt{4+r})^{\frac{2}{r}} = \sqrt{4-r} + \sqrt{4+r} - r\sqrt{r}$$

$$a = \sqrt[r]{\sqrt{4-r} - r\sqrt{r}} (\sqrt{4-r} - r)^r = \sqrt{4-r}$$

$$t = 2$$

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

$$[(a + \frac{1}{a} + \sqrt{r})(a + \frac{1}{a} - \sqrt{r})]^r$$

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

$$A = \sqrt[r]{r^{\frac{10}{r}} \frac{1}{r^{\frac{r}{r}}}} = \sqrt[r]{r^{\frac{10}{r}} \times \frac{1}{r}} = \sqrt[r]{r^{\frac{10}{r} - 1}} = \sqrt[r]{r^{\frac{10-r}{r}}} = r^{\frac{10-r}{r}} = r^{\frac{10}{r}} = r^2$$

$$(rA)^{\frac{1}{r}} = (1)^{\frac{1}{r}} = \sqrt[r]{1} = \sqrt[r]{\frac{1}{1}} = \sqrt[r]{\frac{1}{r}}$$

$$\sqrt[r]{a} = rva^{\frac{10}{r}} \rightarrow r\sqrt[r]{a^{\frac{10}{r}}} = \sqrt[r]{a} \rightarrow r\sqrt[r]{a^{\frac{10}{r}}} \times a^{\frac{1}{r}} = \sqrt[r]{a} \rightarrow rva^{\frac{10}{r}} = 1$$

$$\frac{1}{a} - r = n(1 + \sqrt{r})$$

$$b = \frac{r(1 - \sqrt{r})(r - \sqrt{r})}{9 - r} = \frac{r(r - \sqrt{r})}{9 - r} \sqrt{r - \sqrt{r}}$$

$$n = 1$$

$$\frac{r}{\sqrt{r}} - r = \frac{r - r\sqrt{r}}{\sqrt{r}} = \frac{r(1 - \sqrt{r})}{\sqrt{r}} = n(1 + \sqrt{r}) \rightarrow n = \frac{r(1 - \sqrt{r})}{\sqrt{r}(1 + \sqrt{r})} = \frac{r(1 - \sqrt{r})}{r + \sqrt{r}} = \frac{r - r\sqrt{r}}{r + \sqrt{r}}$$

$$a = \frac{1}{r\sqrt{r}} = \frac{1}{r^{\frac{3}{2}}} = \frac{1}{r\sqrt{r}}$$

$$\sqrt{x+a} - \sqrt{x-r} = r$$

$$v' - v = r$$

$$r'v' = \frac{a + \frac{a}{r} + \frac{a}{r}}{r} = \frac{a + 1}{r}$$

$$r'^2 - v'^2 = a + \frac{a}{r} = (v' - v)(v' + v) \rightarrow v' + v = \frac{a + \frac{a}{r}}{r}$$

$$\sqrt{x+a} + \sqrt{x-r} - r =$$

$$\frac{a + \frac{a}{r}}{r} - r = \frac{a}{r}$$