

$$\left((a+b)^r - (r a b)^r \right)^r = \left(a^r + b^r + \frac{r a^r b^r}{-r a^r b^r} \right)^r = (a^r - b^r)^r$$

$$\sqrt{4-r} + \sqrt{4+r} - r\sqrt{r} = r\sqrt{4-r} - r\sqrt{r} \rightarrow (r\sqrt{4-r} - r\sqrt{r})^r$$

$$(\sqrt{4-r})(\sqrt{4+r}) = \sqrt{4-r^2} = \sqrt{r}$$

$$\frac{r+1-14\sqrt{r}}{r^2}$$

$$\frac{14(r-\sqrt{r})}{(r-\sqrt{r})} = 14 \rightarrow 14 \rightarrow \text{جواب}$$

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$$\sqrt[3]{(r-\sqrt{r})^r} \quad r a b = -r\sqrt{r} \\ a b = -r\sqrt{r}$$

$$\sqrt[3]{12-\sqrt{r}} = \sqrt[3]{r-\sqrt{r}}$$

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$$\left[\left(a + \frac{1}{a} \right)^r - \left(\frac{r}{a} \right)^r \right]^r = \left[a^r + \frac{r}{a^r} - \frac{r}{a^r} \right]^r = r^r \rightarrow (r^r)^r = r^{r^2} = r^2 = r^2 \rightarrow \boxed{r^2} \rightarrow \text{جواب}$$

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

$$14 = r^r \rightarrow \sqrt[r]{r^r \times \frac{r}{r}} = \sqrt[r]{\frac{14}{r}} = \frac{14^{\frac{1}{r}}}{r^{\frac{1}{r}}} = \frac{14^{\frac{1}{r}}}{r^{\frac{1}{r}}} = \sqrt[r]{r} = \sqrt[r]{r}$$

$$\left(\frac{1}{r} \right)^{\frac{r}{r}} = (r)^{\frac{r}{r}} = \sqrt[r]{r^r} \rightarrow \sqrt[r]{r^r \times r^r} = \sqrt[r]{r^4} = r^r = r \rightarrow A = r$$

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

$$\sqrt[r]{a} = r \times (a)^{\frac{1}{r}} \rightarrow \sqrt[r]{a} = r \times \sqrt[r]{a^{\frac{1}{r}}} \rightarrow \sqrt[r]{a} : a^{\frac{1}{r}} = r \rightarrow \sqrt[r]{a^{-1/r}} = r \rightarrow a^{-1/r} = r^r \rightarrow a = r^r$$

$$\frac{r\sqrt{r}-r}{1+\sqrt{r}} = \frac{r(1-\sqrt{r})}{1+\sqrt{r}} \times \frac{1-\sqrt{r}}{1-\sqrt{r}} = \frac{r(1+r-2\sqrt{r})}{1-r} = \frac{-12+4\sqrt{r}}{-1} = 12-4\sqrt{r} = 4(3-\sqrt{r})$$

$\frac{1}{a} = \pm \sqrt{r}$
 $\frac{1}{a} = \pm \sqrt{r}$
 $a = \frac{1}{\pm \sqrt{r}}$

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

$$\sqrt{x+a} + \sqrt{x-f} - r = ? \quad \frac{a+f}{r} - \frac{r}{r} = \left[\frac{a}{r} \right] \rightarrow \text{جواب}$$

$$\underbrace{(\sqrt{x+a} - \sqrt{x-f})}_r \underbrace{(\sqrt{x+a} + \sqrt{x-f})}_{a+f} = \underbrace{x+a - x+f}_{a+f}$$

$\frac{a-f}{r}$

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