

۱ + ۹ = ۷ به من بگو

به مناسبت یازدهمین سالگرد

→ $7 \times 4 = 28 \rightarrow$ کیا ۲ =

(الف) $\sqrt[3]{(\epsilon + \sqrt{\epsilon})^{-1}} \sqrt[3]{1 + \sqrt{\epsilon}} = \sqrt[3]{\frac{\epsilon - \sqrt{\epsilon}}{9}} \times \sqrt[3]{2(\epsilon + \sqrt{\epsilon})} = \sqrt[3]{\frac{2(\epsilon + \sqrt{\epsilon})(\epsilon - \sqrt{\epsilon})}{9}} = \sqrt[3]{\frac{2(\epsilon^2 - \epsilon)}{9}} = \sqrt[3]{\frac{2\epsilon(\epsilon - 1)}{9}}$

$$\rightarrow \left(\frac{\sqrt{r} \cdot \sqrt{a}}{\sqrt{10 + 8\sqrt{5}}} \right) \left(\sqrt{r - \sqrt{a}} - \sqrt{r + \sqrt{a}} \right) = \frac{-r}{r - \sqrt{a}} = \frac{-r}{r} = -1$$

10

$$\frac{\sqrt{10} + \sqrt{5}}{\sqrt{10} + 1} \times \frac{\sqrt{10} - 1}{\sqrt{10} - 1} = \frac{\sqrt{10} + \sqrt{5}}{\sqrt{10} + \sqrt{10} - 1\sqrt{10} - 1\sqrt{10}} = \frac{\sqrt{10} + \sqrt{5}}{4} = \frac{\sqrt{5}}{4}$$

$$(\sqrt{c-b} - \sqrt{c+a})^2 = \cancel{c-b} + \cancel{c+a} - 2\sqrt{(c-b)(c+a)} = 2 - 2\sqrt{c^2 - a^2} \rightarrow -\sqrt{c^2 - a^2}$$

جواب) $\frac{\sqrt{11} + \sqrt{15}}{5 - \sqrt{9}} - 2(\sqrt{9} - 1)^{-1} = \sqrt{11} - \sqrt{15} - \sqrt{9} - 1 = \sqrt{11} - 1$

$$\frac{\sqrt{17} + 3\sqrt{2}}{19} \times \frac{2\sqrt{2}}{19} = \frac{1\sqrt{2} + 15\sqrt{2} + 12\sqrt{2} + 9\sqrt{2}}{19} = \frac{37\sqrt{2}}{19} = \sqrt{2} \sqrt{2}$$

ruzzle

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

Date:

$$\frac{(25 - 2 + 1)^3}{2} = \frac{(24 - 1)^3}{2} = \frac{(23 - 1)^3}{2} = \frac{(22 - 1)^3}{2} = \frac{(21 - 1)^3}{2} = \frac{(20 - 1)^3}{2} = \frac{(19 - 1)^3}{2} = \frac{(18 - 1)^3}{2} = \frac{(17 - 1)^3}{2} = \frac{(16 - 1)^3}{2} = \frac{(15 - 1)^3}{2} = \frac{(14 - 1)^3}{2} = \frac{(13 - 1)^3}{2} = \frac{(12 - 1)^3}{2} = \frac{(11 - 1)^3}{2} = \frac{(10 - 1)^3}{2} = \frac{(9 - 1)^3}{2} = \frac{(8 - 1)^3}{2} = \frac{(7 - 1)^3}{2} = \frac{(6 - 1)^3}{2} = \frac{(5 - 1)^3}{2} = \frac{(4 - 1)^3}{2} = \frac{(3 - 1)^3}{2} = \frac{(2 - 1)^3}{2} = \frac{(1 - 1)^3}{2} = \frac{(0 - 1)^3}{2} = \frac{(-1)^3}{2} = \frac{-1}{2}$$

$$= \frac{1}{2} (1 - \sqrt{1 - 4}) = \frac{1}{2} (1 - \sqrt{-3}) = \frac{1}{2} (1 - i\sqrt{3}) = 1 - i\sqrt{3}$$

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

$$\frac{1}{\sqrt{3+\sqrt{1}}} = \frac{\sqrt{3+\sqrt{1}}}{\sqrt{3+\sqrt{1}} \cdot \sqrt{3+\sqrt{1}}} = \frac{\sqrt{3+\sqrt{1}}}{\sqrt{3^2 + 2\sqrt{3} + 1}} = \frac{\sqrt{3+\sqrt{1}}}{\sqrt{10+2\sqrt{3}}}$$

$$A = \epsilon^{\frac{1}{d}} \times (v^t)^{\frac{1}{d}}$$

$$= \frac{7+8+10}{10} = 2$$

$$\begin{aligned} \sqrt[2]{(x)}^{-\frac{1}{2}} &= (x)^{-\frac{1}{2}} = \left(\frac{1}{x}\right)^{\frac{1}{2}} = \sqrt{\frac{1}{x}} = \frac{1}{\sqrt{x}} \end{aligned}$$

$$\begin{aligned} \sqrt{a} &= \sqrt{v} \times a \rightarrow a = \sqrt{v} \times a \rightarrow a^{\frac{1}{v}} \left(\frac{v}{v} \right)^{\frac{1}{v}} = (a^{\frac{v}{v}})^{\frac{1}{v}} \\ &\rightarrow a^{\frac{1}{v}} = a^{\frac{v}{v}} \rightarrow a = a^{\frac{v}{v}} = \frac{1}{\sqrt{v}} = \frac{1}{\sqrt{2}} = 1 \\ \frac{1}{\sqrt{2}} - \sqrt{2} &= \sqrt{2} - \sqrt{2} = 0 \end{aligned}$$

$$= y - \sqrt{y}$$

$$\begin{aligned} (\sqrt{n+a} - \sqrt{n-b}) (\sqrt{n+a} + \sqrt{n-b}) &= n+a - n+b = a-b = \sqrt{a+b} \cdot \sqrt{a-b} \\ \Rightarrow \sqrt{n+a} + \sqrt{n-b} &= \frac{a-b}{\sqrt{a+b}} \end{aligned}$$