

نام و نام خانوادگی عابدی پاسخنامه تشریحی تکلیف شماره ... کلاس ...

$$\left. \begin{array}{l} 1! \rightarrow 1 \\ 3! \rightarrow 6 \\ 5! \rightarrow 120 \\ \vdots \\ 25! \rightarrow 0 \end{array} \right\} \text{جمع کاه} \rightarrow = 1+6=7$$

$$\left. \begin{array}{l} 2! \rightarrow 2 \\ 4! \rightarrow 24 \\ 6! \rightarrow 720 \\ \vdots \\ 26! \rightarrow 0 \end{array} \right\} \text{جمع کاه} \rightarrow = 2+24=26$$

کاه 20 $7 \times 2 = 14$

$$\sqrt{\frac{1}{4+\sqrt{5}}} \times \sqrt{(1+\sqrt{5})^2} = \sqrt{\frac{1+\sqrt{5}}{4+\sqrt{5}}} = \sqrt{\frac{2(2+\sqrt{5})}{4+\sqrt{5}}} = \sqrt{2}$$

$$\left[\frac{\sqrt{2}+\sqrt{5}}{\sqrt{2}(\sqrt{5}+\sqrt{2})} \right] \times \left[\frac{\sqrt{3}-\sqrt{5}}{\sqrt{3}+\sqrt{5}} \right] = \left(\frac{\sqrt{2}}{2} \right) \left(\frac{\sqrt{3}-\sqrt{5}}{\sqrt{3}+\sqrt{5}} \right) = \frac{\sqrt{6}-2\sqrt{5}}{2} - \frac{\sqrt{6}+2\sqrt{5}}{2} = \frac{\sqrt{6}-1-\sqrt{6}-1}{2} = -1$$

$$\frac{(\sqrt{2}+\sqrt{3})(5-\sqrt{6})}{5-\sqrt{6}} - \frac{2}{\sqrt{3}-1} = \sqrt{2}+\sqrt{3} - \frac{2}{\sqrt{3}-1} \rightarrow \frac{2}{\sqrt{3}-1} = \sqrt{3}+1$$

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

$$\frac{\sqrt{2}(\sqrt{3}+\sqrt{2})}{\sqrt{3}-\sqrt{2}} \rightarrow \frac{\sqrt{2}(\sqrt{3}+\sqrt{2})}{\sqrt{3}-\sqrt{2}} = \sqrt{\frac{2(\sqrt{3}+\sqrt{2})^2}{1}} = \sqrt{6}+2$$

$$\rightarrow \sqrt{6}+2 - 2\sqrt{6}$$

$$2^{\frac{1}{12}} \times 2^{\frac{1}{12}} \times 2^{\frac{1}{6}} \times 3^{\frac{1}{3}} \times 2^{\frac{1}{2}} = 2^{\frac{11}{12}} \times 3^{\frac{1}{3}} \times 2^{\frac{1}{2}} = 2 \times 3 \times 2 = 12$$

$$\frac{3^x(1+3+9+27+81+243)}{3^{x-2}(1+3+9+27+81+243)} = \frac{3^x \times \left(\frac{3}{2}\right)^6}{3^{x-2} \times \frac{3}{2}} = 54$$

$$\frac{4}{9} \times \left(\frac{3}{2}\right)^x = 1 \rightarrow x = 2$$

$$(a^r + b^r - r_{ab})^r (a^r + b^r + r_{ab})^r = (a^r - b^r)^r$$

$$\rightarrow (y + 1 - \sqrt{y}) - \sqrt{y}(1 + \sqrt{y}) + 1 + (y + 1 + \sqrt{y}) = 1 + 1 + y - y - 1 - 1 - 2\sqrt{y}$$

$$\rightarrow 14(2\sqrt{2})$$

$t = 14$

1, Va

$$a + \frac{1}{x} = A \rightarrow (A+B)^T (A-B)^T = (A^T - B^T)^T$$

$$B = \sqrt{Y}$$

$$\left(a^r + \frac{1}{a^r}\right)^2 - \left(\sqrt{v-f}\sqrt{r} + \frac{1}{\sqrt{v-f}\sqrt{r}}\right)^2 = \frac{r-\sqrt{r} + r+\sqrt{r}}{1} = r$$

$$r^+ = r^- = r \rightarrow t = r \quad \checkmark$$

$$A = r^{\frac{y}{10}} \times r^{\frac{f}{10}} \times r^{\frac{v_0}{10}} = r^{\frac{v_0}{10}} = r$$

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

⑦

$$r = \frac{\sqrt{a}}{\sqrt{\frac{a}{a^2}}} = \sqrt{a^{-1}} = \sqrt{V} \rightarrow a^{-1} = \frac{1}{V} \rightarrow a^{-1} = \sqrt{V}$$

$$(a)^{\frac{10}{15}} \times 25 \quad \left(\frac{1}{a} - r\right) = a^{-1}r = r(\sqrt{r} - 1)$$

$$\frac{(\frac{1}{\alpha} - 3)}{1 + \sqrt{3}} = \frac{3(\sqrt{3} - 1)}{\sqrt{3} + 1} \times \frac{\sqrt{3} - 1}{\sqrt{3} - 1} = \frac{3(3 - 2\sqrt{3})}{2} = 3(1.5 - \sqrt{3})$$

$$\sqrt{x+a} + \sqrt{x-b} - y = A \rightarrow yA - b - x + b + x + a = a$$

$$\rightarrow \gamma A = \alpha \rightarrow A = \frac{\alpha}{\gamma} \quad \checkmark$$

②