

لطفاً مرتباً درجید!

۱۹۷۶ کلاسیک

سید امیر

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$$a^r + a^r + b = 0 \rightarrow (a-r)^r = 0 \rightarrow a^r - \varepsilon a + \varepsilon$$

$$a = -\frac{1}{4} \text{ و } b = \frac{1}{4} \text{ و } a - b = 0$$

$$a^r + a^r + b = 0 \rightarrow (a - \sqrt[3]{\frac{1}{4}})^r = 0 \rightarrow a^r - r\sqrt[3]{\frac{1}{4}} + \sqrt[3]{\frac{1}{4}}$$

$$\left[\frac{b}{a} \right] = \left[\frac{-\sqrt[3]{\frac{1}{4}}}{\sqrt[3]{\frac{1}{4}}} \right] = -1$$

$$\frac{\left[\frac{-1}{\sqrt[3]{\frac{1}{4}}} \right] + a}{\left[\frac{1}{\sqrt[3]{\frac{1}{4}}} \right] + a} = -2 \rightarrow \frac{(-1) + a}{\left[\frac{1}{\sqrt[3]{\frac{1}{4}}} \right] + a} = -2$$

$$-1 + a < 0 \rightarrow a < 1$$

$$\left| \frac{1}{\sqrt[3]{\frac{1}{4}}} + a \right| + a = 0 \rightarrow \frac{1}{\sqrt[3]{\frac{1}{4}}} + a = 0 \rightarrow a = -\frac{1}{4}$$

$$\rightarrow \sqrt[3]{\frac{1}{4}} + a = 0$$

$$-A + \frac{[-(-A)]}{1} = \frac{1}{0^+} = +\infty \quad (3)$$

$$a > -1 \rightarrow a < \frac{1}{r} \rightarrow \frac{1}{a} > r \rightarrow \frac{r}{a} > 1 \rightarrow \frac{-r}{a} < -1$$

$$\frac{a-r-\xi}{a-r-A} = \frac{(a-r)(a+r)}{(a-r)(a+r+\xi)} = \frac{\xi}{1+r} \quad (2)$$

$$\frac{(a+A)(a+r)}{r \times (1+\sqrt{a})} = \frac{(a+A)(a+r)}{r \times (1+A)} = \frac{r}{1+r} \quad (4)$$

$$(r+\sqrt{a})(\xi+\sqrt{a}) - (r-A) = \xi a \quad (5)$$

$$\frac{r \sqrt{a} \sqrt{a}}{r} = r \sqrt{a} \left(\frac{-a}{r} \right) = -r \quad (6)$$

$$\frac{-\sin(\sqrt{a}a)\sqrt{a}}{rka} = r \rightarrow -a \cos(\sqrt{a}a) \rightarrow \frac{-a}{r} = r \quad (7)$$

$$\frac{a}{r} = r \quad (8)$$

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$$\frac{\mu \sqrt{a-k} + \mu \sqrt{a} - \sqrt{\mu a}}{(\sqrt{a-k})(\sqrt{a+k})} = \frac{\mu \sqrt{a-k}}{\sqrt{1111}} + \frac{\mu (\sqrt{a} - \sqrt{\mu a})}{111} \quad (2)$$

$$\frac{\mu}{\sqrt{a+k}} + \frac{\mu (a-k)}{(\sqrt{a-k})(\sqrt{a+k})(\mu \sqrt{a} - \sqrt{4a})} = \frac{\mu}{\sqrt{4a}} \quad (3)$$

$$\begin{matrix} + \\ \downarrow \end{matrix} \frac{1+k}{0-} = -\infty \rightarrow 1+k > 0 \rightarrow k > -1 \quad (16)$$

$$\begin{matrix} - \\ \downarrow \end{matrix} \frac{1+k}{0+} = \infty \rightarrow 1+k < 0 \rightarrow k < -1 \quad (17)$$

$$-1 < k < -\frac{1}{\mu} \rightarrow -\pi < k < -\frac{\pi}{\mu} \quad -1 < \cos \theta < 0$$

چون به مفهوم برابر صفر است و حاصل حد عدای حقیقی و غیر صفر است پس حد صورت نیز برابر صفر است!

$$\lim_{n \rightarrow 0} k + \cos(\sqrt{a}n) = 0 \rightarrow k + 1 = 0 \rightarrow \boxed{k = -1}$$

$$\lim_{n \rightarrow 0} \frac{-1 + \cos \sqrt{a}n}{-n^2} \xrightarrow{\text{هم‌ارزی}} \lim_{n \rightarrow 0} \frac{-1 + 1 - \frac{(\sqrt{a}n)^2}{2}}{-n^2} = \frac{-\frac{an^2}{2}}{2(-n^2)} = \frac{a}{4}$$

$$\frac{a}{4} = 3 \rightarrow \boxed{a = 12} \xrightarrow{\text{هم‌ارزی}} \frac{a}{k} = (-4)$$